

September, 2007

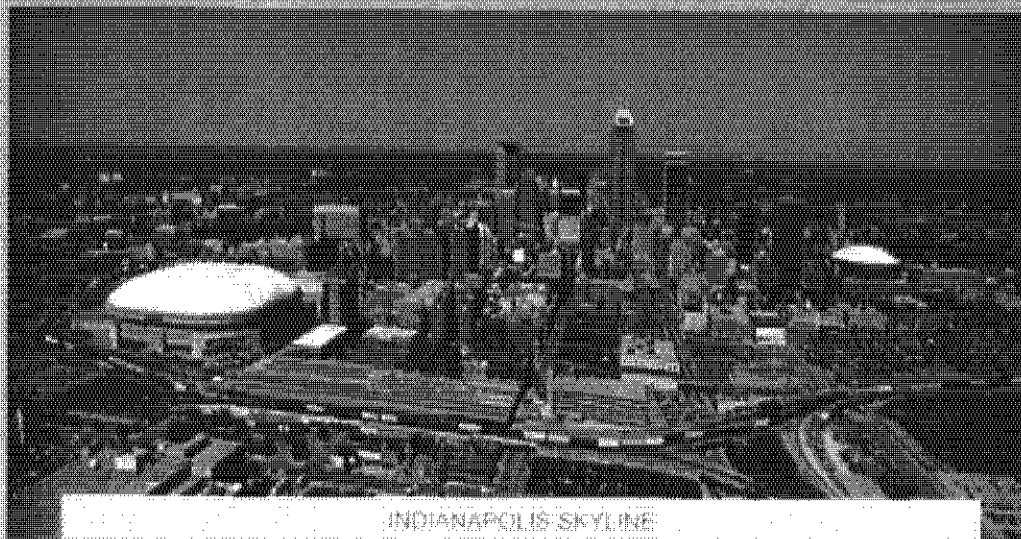
Phase II

Revision

March 2007

INDIANAPOLIS WATER

WELLHEAD PROTECTION PLAN



INDIANAPOLIS SKYLINE

Operated by, **VEOLIA WATER INDIANAPOLIS, LLC**



5249004

Phase II Indianapolis Water Wellhead Protection Implementation

The following outlines the activities Indianapolis Water (IW) undertook to implement Phase I of the Indianapolis Water Wellhead Protection Plan. The Phase II report is a supplement to the revised Phase I report, March 2007 which provides in its appendices, figures and tables documentation of some components implemented in the wellhead protection program.

The Phase II Wellhead Protection Plan (WHPP) provides testament of the utility's efforts to put in place various components of the Phase I report and as such it is a chronology of the development of the wellhead protection program for the IW system. The activities undertaken by the utility before 2004 are documented in the Phase I report. And, with few exceptions the documentation in the appendices of Phase II address only those activities undertaken after 2003. Where it was deemed helpful to telling the story of the evolution of the program there is some discussion of pre-2004 activities in the text of the Phase II report. The revised Phase I and Phase II reports were submitted to IDEM in accordance with their requirement for the IW Utility in March, 2007. The Phase II March, 2007 submittal had all program documentation since the inception of the Utility's wellhead protection efforts noted in the report. VWI was subsequently asked by IDEM to modify the layout of the two reports to show all activity that occurred before January, 2004 in the Phase I plan and activities since 2003 in the Phase II report. This September 2007 revised submittal is in compliance with that request.

The Indianapolis Water utility has five well fields that are managed under this plan; Geist, Fall Creek, Riverside, South, and Ford Road. A sixth well field, River Road is under development and a seventh, Waverly is being explored for future development. Neither of these are addressed in this plan. Another of the Utility's well fields, Harbour Water operates under a separate Public Water Supply Identification (PWSID). It has a separate wellhead protection plan, and also is not addressed in this Plan. One of the Utility's principle management tools in the protection of the well fields is the maintenance of a Potential Source Inventory (PSI) file of legacy and existing industrial and commercial sites within the well fields. The Utility provided an update of the file to IDEM as part of its Phase II obligation, and upon review of the file by IDEM several statistics emerged:

- Across the five well fields there are 788 sites with potential sources of contamination.
- Of those sites, slightly more than 70% (555) were regulated by IDEM.

- The most frequently identified facilities regulated by IDEM were: underground storage tanks (222) and hazardous waste generators, storage facilities and/or transporters (192), followed by LUST sites (113) and other sites governed by other regulations (28).
- The well field with the highest number of unregulated sites was the South Well field with a total of 81 sites.
- Cleanup at 61 sites such as brown field and voluntary remediation sites were also identified.
- The city along with IDEM has identified the locations and monitored the status of 144 spills reported since January 2000.
- The city has installed 9 monitoring wells between the known sites of contamination and their pumping wells as an early warning system.
- The most common facilities with potential sources of contamination were: vehicle repair and maintenance shops (129), gas stations (51), metal fabrication (35), and auto sales and service (34).

Indianapolis Water has for many years recognized the need for source water protection. The utility began its efforts before the enactment of State's Wellhead Protection rule in 1997. In 1994 Marion County formed a Local Planning Team that was later chartered by City-County Council Special Resolution. The Marion County Wellhead Education Committee, (MCWEC) has worked with Indianapolis Water and other member utilities to put in place an education-based program. Since the Phase I submittal in 2002, Indianapolis Water either independently or through the efforts of MCWEC has implemented several measures to both enhance its ability to be knowledgeable of and monitor well field activities, and to management well field activities. The utility has installed sentry wells, implemented several educational initiatives such as offering to schools a 'Water Box' class room tool on water treatment and providing teachers with user training, providing sponsorship of the DNR Fishing Pond at the Indiana State Fair, participating on any number of watershed management initiatives, partnering and collaborating with The Center for Earth and Environmental Sciences (CEES) at IUPUI and others to address watershed issues, developing, and distributing informational tools and materials (brochures, booklets, website, etc) on wellhead protection, etc. These initiatives and others are discussed in the Phase II plan, and documentation that the various initiatives are in place is presented through the inclusion of sample materials, emails, memos, meeting minutes, photos, and presentations in the phase II appendices.

For congruency between the Phase I and Phase II reports, each section of the Phase II report corresponds to those of the Phase I document. Appendices are cited to indicate the location of support documents in the Phase II plan which substantiate that program components were implemented.

Section two of this plan addresses the Wellhead Protection Area (WHPA) delineation reports. As IDEM is already in possession of the delineation reports for each of the five well fields the reports were not included in the Phase II document appendices. The delineated areas as required by the well head protection rule were re-evaluated for the Phase II submittal, and documentation of the re-assessments and also the findings are presented for the five well fields. Two evaluations of the WHPA have been conducted since 2002, one by the Marion County Wellhead Education Committee Local Planning Team (MCWEC) and its participating members in 2003, and a second more recent assessment was conducted by a consultant, North American Water Services (NAWS) on behalf of Veolia Water Indianapolis (VWI), the operator for the Indianapolis Water utility in 2007. A CD and hardcopy of the more recent report, 'Review of Wellhead Protection Area Delineations' NAWS, March 2007 is provided in **Appendix 2** of this document , and a hard copy of the 2003 assessment is provided in the Phase I report.

SECTION 1 LOCAL PLANNING TEAM

A fundamental component of the Phase I implementation is the existence of and participation in the LPT's. Section one of the Phase I report talks extensively about the LPT's. Both Marion and Johnson Counties have developed viable LPT's in which IW is actively involved. These teams routinely meet. (**Appendix 1**).

As discussed in Section 1 of the Phase I plan, in 2000 IW established and began coordinating a Local Planning Team in Boone County for the Ford Road Well field (see public notice information for the formation of the Ford LPT included in Exhibit 1). The team is no longer active, however IW worked with Marion County, the City of Indianapolis, and the Marion County Well field Education Corporation (MCWEC) to ensure that the Ford Road WHPA was incorporated into Marion County's well field protection ordinances. The MCWEC planning team provides support to its utility members; IW, Speedway and Lawrence through providing a consultant who performs site visits to businesses. The consultant distributes materials, offers technical assistance with Best Management Practices and maintains the PSI database. The Ford Well field PSI file is provided updates through this entity. (See Exhibit 2)

Exhibit 1 Public Notice and Receipt from *Indianapolis Star* for the Ford Road Local Planning Team

80565-1632938

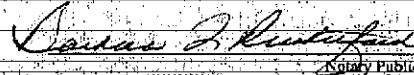
PUBLISHER'S AFFIDAVITState of Indiana SS:
MARION County

Personally appeared before me, a notary public in and for said county and state, the undersigned KERRY DODSON who, being duly sworn, says that SHE is clerk of the INDIANAPOLIS NEWSPAPERS a DAILY STAR newspaper of general circulation printed and published in the English language in the city of INDIANAPOLIS in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 time(s), between the dates of:

11/01/00 and 11/01/00


Clerk
Title

Subscribed and sworn to before me on 11/03/2000.



Notary Public

Barbara L. Rutherford
Notary Public, State of Indiana
Marion County
My Commission Expires 07/28/2001

Form 65-REV 1-88

My commission expires

STATE PRESCRIBED FORMULA

7.83 PICA COLUMN: 94 POINT
94 POINTS / 5.7 P3: TYPE - 16.49
16.49 EMS / 750 - .06596 SQUARES
.06596 SQUARES x \$4.24 - .279 CENTS PER LINE

PUBLISHED 1 TIME = .279
PUBLISHED 2 TIMES = .418
PUBLISHED 3 TIMES = .557
PUBLISHED 4 TIMES = .696

Exhibit 2
Ford Road PSI file

IS	ESTIMATE FACILITY NAME	ADDRESS	CITY	STATE	ZIP	PHONE NUMBER	SITE DESCRIPTION/NAME	HAZARDOUS CATEGORY NUMBER	INFORMATION ABOUT FACILITY NUMBER	HAZARDOUS DETAIL ASSESSMENT PERFORMANCE NUMBER	CONTACT NAME NUMBER	TYPE OF TRAILER NUMBER	STATUS OF PERMIT NUMBER	PERMIT NUMBER NUMBER	HAZARDOUS CLASSIFICATION NUMBER	OPERATING IN YEAR NUMBER	POTENTIAL CONTAMINATION NUMBER	NEW-OLD CONTRACT NUMBER
1	Western Union Corp	3115 Monroe Road	Channahon	Illinois	60611	307-875-3961	Kids Camp	Other Chemicals/Neurotoxic	TRUE	FALSE	Don Kato	1					Shed or Storage	10740000
2	Mobile Filter Plant	6200 W 90th St	Channahon	Illinois	60611	315-815-5891	Fluorocarbon Recovery	Chemical Neurotoxic/Poison	FALSE	FALSE	Tim Myers	1						10740000
3	Wright's Pharmacy	9950 Highway 140	Channahon	Illinois	60611		Package waste	Other Chemicals/Neurotoxic/Poison	FALSE	FALSE			10740000	10740000				10740000
4	City of Channahon	1400 N 14th St	Channahon	Illinois	60611		Landfill	Other Chemicals/Neurotoxic/Poison	FALSE	FALSE	David Lantz	1						10740000
5	AMCO	1400 N 14th St	Channahon	Illinois	60611		Landfill	Other Chemicals/Neurotoxic/Poison	FALSE	FALSE			10740000	10740000				10740000
6	McGraw-Hill	1400 N 14th St	Channahon	Illinois	60611		Landfill	Other Chemicals/Neurotoxic/Poison	FALSE	FALSE			10740000	10740000				10740000
7	Don Chemical Co. (Flow Systems)	10100 Highway 140	Channahon	Illinois	60611	315-815-5891	Landfill	Other Chemicals/Neurotoxic/Poison	TRUE	FALSE	Don Kato	1						10740000
8	Republic	1400 N 14th St	Channahon	Illinois	60611		Landfill	Other Chemicals/Neurotoxic/Poison	FALSE	FALSE	Mike Lantz	1						10740000
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* Yellow highlights are those facilities within the Ford well field in Zionsville, IN for which site visits were conducted by the MCWEC consultant. The consultant also contributed updates to the Ford PSI database.

Subsequent efforts by IW to rekindle interest in resuming the Boone County LPT have not been successful. In 2004 IW made contact with Boone County Health Department officials to gauge the will to resume LPT activities, the group however has not re-formed. Although the Ford Well field management program is supported through Marion County's local ordinance and its educational program is supported through the efforts of the MCWEC, IW will continue its efforts to re-establish the Boone County LPT. ✕

SECTION 2 DELINEATION

Delineation of the wellhead protection areas covered in the Phase I report were completed by contract support from Wittman Hydro Planning Associates, Inc. (Geist, Fall Creek, Riverside and Ford Road well fields) and CH2M-Hill (South Well field). The complete delineation reports meeting the requirements of 327 IAC 8-4.1-6 were approved by IDEM on September 24, 2001. As reported and demonstrated in Section 2 of the Phase I report an evaluation of the five well field delineation areas was undertaken in November, 2003 by the MCWEC which included participation by the Department of Metropolitan Development's TQP, the City's Office of Environmental Services, and Marion County Health Department (see **Phase I, Appendix 2-2**). A second and more recent review of the approved delineations was completed and the findings reported by North American Water Systems (NAWS) in March, 2007. The NAWS evaluation considered changes to well field withdrawals by IW and other users since 2002, as well as the location of new wells. The assessment concluded that the existing delineations have not changed and presently are not in need of re-modeling. A hard copy and electronic file of that report is provided in **Appendix 2** of this document.

SECTION 3 IDENTIFICATION OF POTENTIAL SOURCES OF CONTAMINATION

An integral part of protecting the public water supply well fields is to identify all potential sources of ground water contamination within the wellhead protection areas. A number of resources are utilized to facilitate maintaining the PSI database.

The methodology used for developing the PSI is discussed in the Phase I report. The most recent update of the database for each of the five well fields is also provided. The methodology and data resources for the updates mirror much of what was used in the initial development. The database had direct input from two sources. One source is the MCWEC consultant and VWI served as the second source for inputs. The MCWEC updates were based upon periodic searches through UST, LUST, RCRA and other databases, and additionally through windshield surveys, and site visits to businesses. IW provided more timely updates to the PSI file as information became available from quarterly meetings held with IDEM related to State Cleanup, VRP and LUST sites, and through data files secured from IDEM on UST, LUST, and Brownfield sites.

IW also provided to the PSI updates of new sites coming into the well fields as a result of the Technically Qualified Person (TQP) reviews required by the local well field ordinance. Exhibit 3 provides a summary of the number of TQP sites.

Exhibit 3
TQP Sites identified in PSI file

Identified TQP Sites		
Wellfield	TQP Site in PSI	Business reviewed by TQP deemed Exempt
FC	33	29
Ford	0	0
Geist	3	9
RS	43	40
SWF	47	26
TOTAL	126	104

IW participates in the TQP review which ensures compliance with construction standards and best management practice measures provided for the protection of the well field. IW reviews new construction and land use change requests along with the City of Indianapolis Department of Metropolitan Development TQP, Marion County Health Department, and the City of Indianapolis Office of Environmental Services. The TQP process as referenced on page 48 of the Phase I document requires the applicant to submit a land use questionnaire, construction plans, type and quantities of chemicals to be used on site, BMP's etc as required for the review. Approvals or denials are issued out of the process. Where approved, stipulations are placed on the business. The TQP also performs site visits and provides to IW periodic reports to include the compliance status and any measures requested for correction where a facility is shown to be out of compliance. As previously noted IW also includes in the PSI file information gleaned from IDEM and MCHD through quarterly meetings that IDEM hosts for the utility. This information as well as that of the TQP reviews is placed in the PSI database (See **Appendix 3**).

A description of the PSI file update methodologies of both MCWEC and IW are given in **Appendix 4**.

In addition to the database updates, IW developed a management tool to facilitate identifying, and focusing resources on where there may be problem operations within the well fields. An automatic electronic report (**Appendix 5**) which identifies PSI sites in the well fields was developed to provide to the MCWEC consultant information about where services have been turned off/turned on. This is an indication of new management or property owners, possibly unfamiliar with well field protection and best management practices coming into the well field. Well field training was also provided to IW field personnel. The training was provided to acquaint personnel with the concepts of well field protection and to engage them in providing report backs from visual inspections as they visit the PSI sites in the normal course of their job duties, i.e. reading meters. Information from both the turn on/turn off report and site inspections is provided to the MCWEC consultant to help them in directing their resources for site visits. The MCWEC consultant conducted the initial VWI employee training in December, 2004 (**Appendix 6**) and training continues in-house as new employees come into positions that place them in the field. Exhibits 4-7 provide key elements of the field personnel training. The training teaches what to look for when visiting the sites, and provides methods for getting data reported up to management, i.e. a check list card for personnel who do not carry electronic work order devices, and for those who do the screens are shown to demonstrate where information should be recorded for a Potential Contaminant Source (PCS) investigation; abandoned equipment, evidence of a spill, turn on/turn off.

Although not a required part of the PSI file, IW also maintains a list of pipeline (Natural Gas and Petroleum) traversing the well fields. The pipe has also been added to the Mapguide system, which provides a graphic representation of the pipeline within the well fields. IW also maintains a historical list of spills in the well fields, as sample of which is provided below. The expanded table is given in **Appendix 7**.

Spill No#	Incident/date/time	Reported/date/time	City	State	Spill Location	Well-field
200001105	1/19/2000 11:30	1/20/2000 16:15	Indianapolis	IN	intersection of Fall Creek and Keystone	Fall Creek
200002081	2/7/2000 8:30	2/7/2000 8:30	Indianapolis	IN	4016 Keystone Ave	Fall Creek
200008253	8/30/2000 8:29	8/30/2000 8:29	Indianapolis	IN	2226 East 44th Street	Fall Creek
200103255	3/30/2001 14:46	3/30/2001 14:46	Indianapolis	IN	54th & Winthrop	Fall Creek
200108073	8/9/2001 13:41	8/9/2001 13:41	Indianapolis	IN	5425 N KEYSTONE AVE	Fall Creek
200202088	2/6/2002 18:00	2/6/2002 18:00	Indianapolis	IN	ALLEY BEHIND 5200 BLOCK OF N CENTRAL	Fall Creek
200202192	2/25/2002 9:40	2/25/2002 9:45	Indianapolis	IN	5418 N. COLLEGE Ave.	Fall Creek
200203127	3/15/2002 23:15	3/16/2002 0:41	Indianapolis	IN	Lift station # 403 at Shadland & Fall Creek.	Fall Creek
200211153	11/23/2002 18:45	11/23/2002 19:12	Indianapolis	IN	2212 E 56 ST	Fall Creek
200303137	12/20/2002 0:00	3/17/2003 10:07	Indianapolis	IN	4459 Allisonville Road	Fall Creek

The PSI files for each of the 5 well fields were updated in 2006-2007 (see **Appendix 4**, letter dated February, 23, 2007). The current file and statistical inferences from the data are included in the Phase I report. An electronic copy of the current PSI file along with a set of maps for each well field with the PSI sites are provided in **Appendix 18**.

Training for Field Personnel (Dec '04) to help Monitor activities in the well field

Facility Types

- Commercial/industrial facilities
- Maintenance and body shops; gas stations
- Dry cleaners
- Small metal working shops
- Small residential/commercial businesses
- Other small to medium businesses that use chemicals and generate wastes

Indicators for Concern

- Observations of waste storage outside of buildings.
- Drums, containers, tanks
- Evidence of spills: oils, liquids, colored staining on ground
- Evidence of poor housekeeping: lots of old equipment, debris, junk, barrels, abandoned cars, overflowing trash dumpsters.

Wellfield Business Observation Checklist

Facility: _____ Date: _____

Address: _____ Time: _____

Business Category

- ☐ Dry Cleaning ☐ Auto. Repair/Service ☐ Other Industrial
☐ Vehicle Refueling ☐ Construction Site ☐ Other _____

Wellfield Protection Area

- ☐ Riverside Wellfield
☐ Fall Creek Wellfield
☐ Perry Wellfield
☐ Ford Road Wellfield
☐ Geist Wellfield

Observations

- ☐ Outdoor Chemical Storage
☐ Outdoor Equipment Storage
☐ Evidence of Spills (Sheens/Stains)
☐ Debris/Trash/Dumping
☐ Other _____

SECTION 4

POTENTIAL SOURCE MANAGEMENT

The programs described in Section 4, Potential Source Management of the Phase I report, as required by Indiana Wellhead Protection rule are the basis for IW's well field management activities in the five well field areas. What follows are the various components and supportive documentation for each. The subsection numbers correspond to the discussion in the Phase I report.

4.1 Well Isolation Area Management (Sanitary Setback Area)

Wells in accordance with State rule have historically had a 200-foot radius sanitary setback area applied. An exception permits a 100-foot radius sanitary setback where the well water is subjected to disinfection treatment prior to distribution, or the production aquifer is adequately protected by natural barriers. IW wells are designed with this compliance. (See **Appendix 8**).

4.1.1 Measures for Management Consistent with 327 IAC 8-3

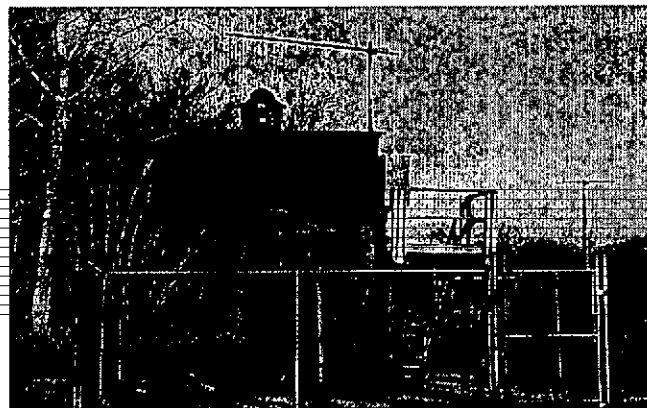
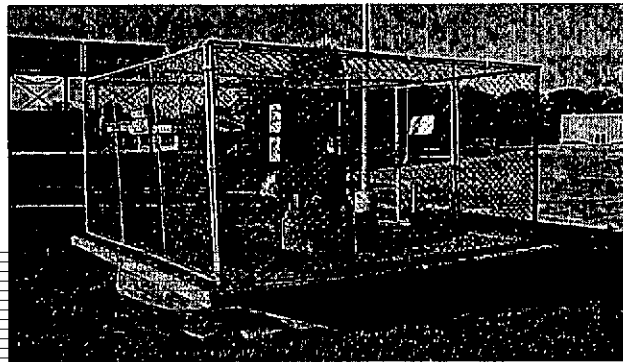
All IW production wells meet or exceed the construction standards set forth in the Recommended Standards for Water Works (Ten-States Standards) or rules established at 327 IAC 8-3. IW is in the process of developing a new well field. The River Road Well field (RRW) will supply the White River North Ground Water Treatment Plant (GWTP), and will be assigned the Public Water Supply Identification Number (PWSID) of the existing five well fields. The RRW will be managed under this management plan, and plan revision to incorporate the well field will be submitted within 3-years in accordance with the State Rule. Documents extracted from a submittal provided to IDEM for the development of this well site and wells that attest to compliance with recommended standards are provided in **Appendix 9**.

4.1.2 Measures to Prohibit the Storage and Mixing of Chemicals

IW provides a restriction against chemical usage within the protected area of the wells, except as is related to the treatment process. IW wells are located on property owned by IW or on land covered by restrictive easement. Where on private property the easements provide language that restricts activity that may be injurious to the groundwater. (See **Appendix 8**, Grant of Water and Easement).

4.1.3 Provisions to Secure the Wellhead and Prevent Unauthorized Access

All wells located on IW plant properties are contained within the fenced and locked plant grounds. During normal business hours, IW personnel routinely patrol the plant grounds. After hours, the access gates to the plant property are locked to prevent any unauthorized access. Photos of various enclosures are shown below which is typical for well sites on IW property. Personnel visit the wells for inspections. The wells are visited weekly, monthly and quarterly for various inspection and testing. The rotation schedule results in personnel visiting well sites daily. Personnel also frequent the wells to perform maintenance, and the well operation is monitored. See **Appendix 10** for well inspection activities for weekly, monthly and quarterly visits.



4.1.4 Best Management Practices for Transportation Routes through the Isolation Area

The Geist and Ford Road well fields do not have any transportation routes through the well isolation areas, except for gravel access roads to each well for maintenance and inspection. No chemicals are used on these roads, and snow is removed by mechanical (i.e., plowing) processes. No additional best management practices are warranted for these wells.

Wells in the Fall Creek and Riverside well fields (i.e., those treated as surface water) are in some cases located along or near city streets. Because the wells are treated as surface water, no additional best management practices for the transportation routes have been adopted. In general, all of the streets located near these wells have gutters that deposit storm runoff in the city storm or combined sewer systems. Therefore, the likelihood of contamination in the well(s) from a spill on the street is minimal.

In the South Well field, as well as other wells is the Riverside and Fall Creek well fields, no major thoroughfares are located within 100 feet of any production well. Some residential streets and gravel/paved access drives are located within the 100 foot isolation areas. Best management practices for these streets include the following:

- No chemical removal of snow or ice (plowing and sand only);
- All sanitary and storm sewers are located outside of the 100 foot radius;
- All surface drainage is routed to drains outside of the isolation area; and
- No transportation of hazardous materials is allowed.

The exhibit document of **Appendix 11** is extracted from the South Well field Special Warranty Deed which conveys water rights and establishes land use restrictions for development of the well field. Items 2 and 3 provide documentation of the provisions in place.

4.2 WELLHEAD PROTECTION AREA MANAGEMENT

4.2.1 General Management and Monitoring Measures for Existing and Future Potential Sources of Contamination

Management of the well field and the activities of the Potential Contaminant Sources within the well field occur principally through zoning and educational efforts. IW has focused on providing an atmosphere in which businesses and water supplies can co-exist in an economically and environmentally sound manner.

Public Education is a corner stone of IW's Management Program, and IW (through the MCWEC in Marion County) is working directly with facilities that have been identified as a potential source of contamination in the well field protection area. Additionally, IW is in a working relationship with Johnson County's LPT to also provide education. Both in Johnson and Boone Counties because of the proximity of the IW wells in these counties to Marion County, the MCWEC through the efforts of their consultant have incorporated into their educational program the areas surrounding these wells. The consultant provides site visits to businesses and also updates the PSI file for these wells, as evidenced by Exhibit 2, and documents visitations of businesses within the Ford WHPA located in Zionsville, IN of Boone County.

The plan to manage specific potential sources of contamination (i.e., existing businesses) is centered on education, self-assessment and recognition. The key practices that are utilized for managing the activities of these businesses and providing education to the residents within the well fields are listed as bulleted items below.

- **Public Education**

The Marion County Well field Education Corporation (MCWEC) coordinated an education-outreach effort to inform Marion County residents about ground water protection. Because of the approach used by MCWEC for public education, namely print and television media, residents in Johnson, Boone and other surrounding counties received the same educational materials as those in Marion County.

To assist in the public education campaign, MCWEC contracted with an Indianapolis-based public relations firm (Hickman & Associates) to develop an outreach strategy and assist in the

development of public and business education and outreach materials.

MCWEC developed a campaign to educate the residents of the Wellhead Protection Areas (WHPA) through the distribution of informational brochures, establishing a website, articles in regional (*Indianapolis Star*) and local new papers, and the production of several television public service announcements. Two newspaper articles were published (*Indianapolis Star*, Real Estate Section, October 31, 1999; and *The West-side Flyer*, November 15, 1999).

MCWEC also produced, in cooperation with the public access station (Channel 16) one public service announcement (PSA). Two interviews were conducted on the "Amos Brown Show" (WAV-TV cable channel 53 on August 30, 1999) and the Trinity Broadcasting Company (December 14, 1999).

To insure a broader audience is included in the public education campaign, MCWEC, along with IW, planned a water bill insert to accompany water/sewer bills mailed by Indianapolis Water and the Indianapolis Department of Public Works. Additionally, information on wellhead protection with a map showing the location of the wellhead protection areas is included in the utility's annual water quality report, which is distributed to all utility customers.

Veolia Water Indianapolis as the Operator for IW is also very engaged in providing education to the community through its participation and sponsorship of community programs, such as sponsorship of the 'fishing pond' via the Department of Natural Resources (DNR) featured at the Indiana State Fair, distribution of the Water Box to schools within the utility's service territory and a number of other activities. VWI is also active in Watershed programs that benefit groundwater supply and also the more immediately impacted surface water resources. A number of the Utility's involvements, educational efforts and activities are documented in **Appendix 12**. A sampling of activities is given below.

- MCWEC website page fact sheet (**there is no formal Neighborhood Partner Program**) This program was attempted, neighborhood association meetings were attended and speakers were provided, but the meetings were not well attended and so it was determined that this was not an

efficient use of the resources. Community groups including Neighborhood Associations may still contact MCWEC to secure speakers for their organizations and VWI also provides tours, etc. however MCWEC does not solicit the neighborhood associations. The MCWEC resources are targeted toward site visits and material distribution to businesses in the WHPA's.

- VWI has a number of activity sponsorships, as well as educational endeavors (i.e Water Box, Sponsorship of research through the Center of Earth and Environmental Science (CEES))
- VWI is involved in the boarder Watershed Management issue through its participation on a number of steering committees, i.e. Little Cicero Creek Watershed Management Steering Committee, Upper White River Watershed Alliance, Eagle Creek Watershed
- IW includes in its annual Water Quality publication to its customers a map of its service territory to include the WHPA's and information on its Well Head Protection Program.

- **Business Education**

IW and MCWEC developed an outreach program to businesses within the WHPA's. The program permits direct personal contact with the owners, operators or managers of businesses identified as a potential source of contamination. The "site visits" serve as a means of meeting the business owner, operator or manager, and provide information on wellhead protection and the well field they are located in. The visits, to assist owners in developing best management practices for operation in the well field are done principally through the MCWEC consultant. At the onset of the program MCWEC distributed post cards announcing the planned visits, Exhibit 8.

Exhibit 8
MCWEC Announcement of Site Visits to
Businesses in the WHPA



**Marion
County
Wellfield
Education
Corporation**

**320 N. Meridian, Suite 200
Indianapolis, IN 46204**

**Phone: 464-2219
Fax: 464-2217**

The Marion County Wellfield Education Corporation (MCWEC) is a nonprofit organization, sponsored by the Indianapolis Chamber of Commerce, with the mission to prevent contamination to the valuable groundwater resources of Marion County. Your business is located within the Speedway Wellfield Protection Area, and we would like to briefly talk with you about how you can help protect the water we drink.

**Two representatives of MCWEC will be stopping by on
October 5, 1999 to provide you with some information, as well as answer any
questions you may have about local groundwater protection issues.
They will not inspect your business or try to sell you anything!**

We look forward to meeting you! Thank you for your cooperation!

The MCWEC site visit program provides businesses with a self assessment tool and follow up visits generally within 60 days. Materials such as the "Good Business Practices For Well field Protection" brochure (**Appendix 4**, Phase I), or industry specific fact sheets are left with the site owner/manager. MCWEC also provides to the business through the consultant services technical expertise where needed to help with their facility assessment, and they maintain a small budget to help fund some supplies to assist businesses in providing proper spill prevention. The MCWEC attempted to organize some group meetings of various industries and also to participate in some trade shows. A summary of the minutes from a MCWEC meeting dated May 11, 1999, provided in **Appendix 4** of the Phase I report suggests limited success with trade shows. MCWEC was successful in meeting with the

Chemical Distributors. Industry specific fact sheets were developed and these were distributed to the various businesses via mailings. MCWEC meeting minutes discuss getting trade member lists to do mailings of the printed materials over participating in the trade shows given the difficulty they experienced. Participation in the trade shows proved difficult in part because many of the conferences are out of state. The industry specific fact sheets that were developed continue to be part of the MCWEC outreach program and are routinely distributed during the onsite assessment visits by the consultant.

During a MCWEC meeting in 2006 there was discussion about the need to develop materials that non-English speaking members of the business community can understand. A list of possible projects (**Appendix 13**) were presented during a MCWEC meeting in late 2006 for consideration as 2007 activities to include the development of translated business materials. While not all items on the list were accepted, the production of the translated materials, item number 7 was approved. Meeting notes from a MCWEC session dated March 20, 1998, a presentation of activities that transpired between July, 2001 and June, 2002, and letters dated September, 2003 (**Appendix 4**, Phase I) and July, 2004 (**Appendix 13**) from the consultant to MCWEC detailing their activities all attest to the business education program components that are in place and are ongoing. Documentation (letters, brochures, fact sheets, flyers, presentation, meeting) of the Business Education Program is presented in Appendices 4 and 13 of Phases I and II respectively. The various items are noted below.

- Business Self- Assessment Guidebook for Wellhead Protection
- Good Business Practices For Well field Protection
- Industry Specific Fact Sheets
- MCWEC Pollution Prevention Supply List
- MCWEC Meeting Minutes, May 11, 1999 (discusses MCWEC's efforts to participate in Industry Trade Shows)
- MCWEC Potential Projects 2006 (item #7, translation of industry specific guidance)
- MCWEC 1998 meeting minutes (discussion on various program components, program development and the status of activities)
- Consultant presentation given to MCWEC on the Business Education Program; the program components and those activities performed during the period June 2001-July, 2002.

- Letter from Consultant to MCWEC detailing activities, July 21, 2004
- Letter from Consultant to MCWEC detailing activities, September 21, 2003
- MCWEC Supplier Breakfast Meeting Agenda, Aug 31, 1999
- Fax sheet of communications securing invite list of chemical distributors for a breakfast meeting on wellhead protection

As previously noted the materials developed for the MCWEC program are also utilized in the support of the educational efforts extended to those businesses in areas just outside of Marion County, in Johnson and Boone where IW has wells in the SWF and Ford well fields. The Consultant visits are extended to those businesses, and the visits are documented in the PSI file as are the visits to businesses with in Marion County.

Marion County enacted a local ordinance to provided additional protections to the Well fields. With the Well field Protection Zoning Ordinance, new and expanding facilities seeking an Improvement Location Permit (ILP) for the construction are also to provide a site and development plan. An independent party (called the "Technically Qualified Person (TQP)), Marion County Health Department and the applicable water utility review the site and development plans and provide recommendations and obtain commitments for site design and construction to minimize groundwater contamination. The Marion County Wellhead Ordinance and a copy of an ILP submittal required of new construction projects for that process are shown in **Appendix 4, Phase I.**

While Johnson and Boone Counties do not have Wellhead Ordinances they do adhere to the requirements of the State Rule relative to requiring proper sanitary setbacks. Each of these communities also perform technical reviews of new construction going into the well fields. Johnson County provides IW notice of their technical meetings and an agenda of the business locations under review. VWI on behalf of IW locates those properties relative to the IW wells to determine the need to either comment on the proposed projects or participate in the technical review sessions for the new construction. Documents demonstrating the receipt of announcements of the Technical Review Meetings and also the exercise that VWI performs to locate the proposed new construction relative to the IW wells to ascertain any impact to the

wells is provided in **Appendix 14**. The sample documents given are for Hamilton County where IW sees more new development in the vicinity of its wells, but the process illustrated is the same for Johnson and Boone Counties.

4.2.2 Compliance of Wells with State Construction Standards and Permit Requirements

See Phase I plan. No additional documentation provided.

4.2.3 Monitoring for Contaminants Associated with Identified Potential Sources of Contamination

IW routinely collects samples for analysis of raw water quality for general chemistry parameters. Base-line sampling is repeated every year to identify any trends in contaminant concentrations. And as indicated in the Phase I Plan, routine sampling of finished (treated) water is completed according to the Standardized Monitoring Framework (See Appendix 4-6 of the Phase I Plan) as issued by the Compliance Section, Drinking Water Branch, Indiana Department of Environmental Management.

An extraction from an IW sampling report is provided in **Appendix 15** along with an email on the same subject. (The sample document provided does not show all of the report fields, test results are not provided in the sample document)

From the IW sampling plan Operation's personnel make decisions about how to operate the wells to minimize risk to the well field from identified plumes, and they also decide whether or not increased monitoring is needed. To provide additional protections VWI developed a Well Monitoring Program and identified with the assistance of the MCHD and IDEM locations for monitoring wells within the one-year time of travel relative to the production wells and PSI sites in each of the five well fields. In 2006 IW installed several of the monitoring wells. Additional wells are scheduled to be installed in 2007. **Appendix 16** contains aerial maps of the monitoring well sites, the table of content from the Wellhead Protection Plan Well Monitoring Program, a well sample form from the well monitoring program, and a spreadsheet listing the location and the status of the proposed monitoring well sites in the plan.

4.2.4 Methods or procedures for Maintaining and Updating Records for Potential Sources of Contamination

IW maintains the records on all identified potential sources of contamination in a central database, the PSI file. Updates to this database occur as new information becomes available and as the utility is notified of new potential sources (e.g., site approvals in Marion County via the TQP process) coming into the WHPA. IW receives information via VWI field personnel in the normal course of their jobs (i.e. meter reading, service calls, etc.), and new potential source inventory inspections undertaken by the MCWEC consultant and IW efforts, information from IDEM and MCHD during quarterly meetings held with IDEM, and correspondence from MCHD related to site inspections that they conduct. **Appendix 17** provides documentation of site visits that are facilitated by various entities, and documentation that this information is provided to IW. Comments related to investigation and remediation status of known plumes from the IDEM quarterly meetings (which often includes MCHD) and also compliance/enforcement actions taken from the Department of Metropolitan Development (DMD) TQP process by way of updates that they provide IW are documented in the PSI database. The following items are included in Appendix 17:

- Spreadsheet of TQP site inspections, 2005
- Spreadsheet of MCHD Haz Mat Incident Log and their inspection of TQP sites, 2005
- Documentation of IDEM quarterly meeting with the utility

Maps detailing each of the Wellhead Protection Areas (one and five year times of travel), production well locations (proposed and existing), monitoring well locations (proposed and existing), and the PSI sites shown in their approximate locations are provided in **Appendix 18**. A CD with an electronic file of the PSI spreadsheet is also provided. The ID numbers of the PSI sites contained in the spreadsheet correspond to those shown on the map.

4.2.5 Identification of Abandoned Wells

Indianapolis Water (IW) has undertaken a plan to close all company-owned wells that are no longer in service. All “retired” wells within the IW systems have been identified and will be properly abandoned (according to 310 IAC 16-10) over the next (10) years. All retired wells within the IW systems are presently secured and pose no threat by direct contamination. Since 2004, VWI developed a capital project with a

recommended closure schedule for the retired wells. A sample project is included in the Phase II plan., Appendix 19.

To facilitate the closure of private wells, Veolia Water Indianapolis in 2006 developed an automatic reporting application that provides notice to the Marion County Health Department (MCHD) of properties with wells for possible closure. A quarterly report (Appendix 19, Phase II) is generated of a listing of all new customer service taps and a status of how the wells were left, i.e. irrigation, etc., this report assists the MCHD in their follow-up with the property owners to ensure proper well closure.

IW has no direct authority to order property owners to properly abandon old wells. However, the utility works closely with the appropriate County Health Departments to identify unused – or improperly abandoned -- private wells. **Appendix 19** provides documentation of the spreadsheet and notification mechanism, and also an acknowledgement from the MCHD that they are receiving the spreadsheet. A fax copy from the MCWEC consultant also acknowledges receipt of a report provided them quarterly of service turn on- turn offs. This report alerts them to where there may be new business owners or management coming into the wellhead areas. The report is generated by the activities of VWI service personnel as they either disconnect or reconnect existing services at what has been identified as PSI sites

4.2.6 Pesticide Management

In accordance with the Wellhead Rule, which requires that the wellhead protection management plan address the “use, application, storage, mixing, loading, transportation and disposal of pesticides. IW worked with the Pesticide Administrator of the Office of the Indiana State Chemist (OISC) to insure that pesticide use within the wellhead protection areas meets all applicable federal and state requirements. This cooperation was warranted because the OISC is the only entity that can regulate pesticides in the State, and as such pesticides are not regulated under the IW wellhead protection plan.

IW, with the assistance of MCWEC and the OISC identified, as best as possible, all licensed pesticide dealers and applicators servicing the Indianapolis metropolitan area and provided them maps of the delineated wellhead protection areas (WHPAs). Fact sheets, similar to those developed for other business sectors, were developed and also provided to licensed applicators.

In Marion County, the Marion County Health Department (MCHD) and OISC initiated a program to inspect for best management practices, and to provide assistance to registered pesticide applicators in the County. The Chemists office continues to perform inspections. The OISC also provides some wellhead protection training during their certification meetings, where applicators are required to attend for continuing education. Documentation that this component of the program was implemented is found in **Appendix 4, Phase I**.

4.2.7 Notification of Property Owners, Mineral Owners and Leaseholders of Record

This requirement was satisfied via Public Service Announcements, Television and Radio talk show appearances, mailings to business owners (see postcards to businesses, Exhibit 8).

Additionally, IW provides annual water quality reports with the WHPAs shown to all customers. The City of Indianapolis has available on its website information about wellhead protection including an address locator that tells a property owner or developer if property is within the delineated wellhead zones.

The DMD construction permitting process also alerts owners about the location of their property relative to the wellhead protection areas.

4.2.9 Posting of Wellhead Protection Area Signs at Perimeter of WHPA

IW via MCWEC installed billboards and smaller placards around wellhead areas (**Appendix 4, Phase I**)

SECTION 5 CONTINGENCY PLANNING

5.1 Contingency Measures

IW works through the Local Emergency Planning Committees (LEPCs) in Boone, Marion and Johnson Counties, as well as with the broader hazardous materials response community in response to emergency spills within the well fields. The LEPCs have been provided the Utility's emergency contact information and

delineation maps, and emergency exercises are held. Exercises with LEPCs have been held on general emergency response, high hazard dam breeches, surface water chemical spills, and groundwater contaminant spills. **Appendix 20** documents a contingency planning session on wellhead protection held March, 2007. Marion County HazMat, Marion County Health Department, IDEM, and IW participated. A representative from the Johnson County Health Department also attended. Johnson County during a September, 2006 Wellhead meeting discussed a similar exercise, and protocol for spill notification and emergency response was also discussed.

Wellhead Protection Phase II March, 2007 (September, 2007 revision)

LIST OF APPENDICES

Phase II Report

<u>Appendix</u>	<u>Description</u>
1-1	MCWEC Agenda, January 18, 2006 Johnson County Wellhead Mtg. Minutes, April 19, 2006
1-2	IDEM Quarterly IW Wellfield Update Meeting Agenda Johnson County LPT Meeting Minutes, April, 2006 Johnson County LPT Meeting Notice, Sept, 2006
2.....	VWI Review of WHPA Delineations, March 2007
3 -1	ILP Form Questionnaire (TQP review)
3-2	TQP Review Notification/w Site Conditions
3-3	TQP Tracking Report, 1999 TQP Tracking Report, 2005
3-4	IDEM Quarterly IW Well field Update Meeting Agenda, March 2006 IDEM Quarterly IW Well field Meeting PSI Site Status Reports, March 2006
4-1	MCWEC Memorandum PSI Database Update Methodology, February, 2007
4-2	VWI PSI Database Update Methodology
5.....	VWI Turn Off/Turn On Report Generated to MCWEC Consultant (Quarterly Report)
6-1	MCWEC Training for VWI Staff, December 2004
6-2	EHS&S Training on GW Protection, February 2006
7-1	MapGuide Exhibit of SWF with Area Pipelines Sample Spreadsheet of Pipeline Database Maintained
7-2	Spreadsheet of Data Maintained in the IW Spill Database
8-1	Grant of Water and Easement Rights and Restrictions

Wellhead Protection Phase II March, 2007 (September, 2007 revision)

- 8-2.....IW Letter dated March 2007 Granting Access in Wellfield
- 9.....River Road Wells - Preliminary Data Submittal Requirements for Wellfield Development and Well Development
- 10.....VWI Staff Routine Well Inspection Tasks, includes Visual (weekly rotations done to visit the wells)
- 11.....Extraction from a warranty deed which demonstrates land use restriction on activities in the wellfields and preserving a 100' setback
- 12-1.....MCWEC Consultant Progress Update- Business contacts, verification of contacts with schools, business assessments
- 12-2.....MCWEC Agenda, January 2003 listing of activities, i.e. billboards, TV-Radio, etc.
- 12-3.....MCWEC Webpage Fact Sheet on WHP
- 12-4.....Lil Cicero Creek Steering Committee Meeting Agenda, May 2005
Upper White River Watershed Alliance (UWRWA) Agenda, April 2006
Upper White River Watershed Alliance (UWRWA) Agenda, e-mail notice of meeting, March 2007
- 12-5.....Photos of VWI/IW sponsored Educational Activities, CEES Newsletter Fall/Winter 2005
- 12-6.....Annual Water Quality Report to Customers (includes WHPA)
- 13-1.....MCWEC Prevention Supply List
- 13-2.....MCWEC Proposed List of Projects (Item #7 includes translation of business materials-accepted as a 2007 project)
- 13-3.....Consultant report on activities, July 2004

Wellhead Protection Phase II March, 2007 (September, 2007 revision)

- 14-1.....DMD notice to TQP Members of TQP applicant and attached applicant's questionnaire and Permit**
- 14-2.....Notice of Noblesville's Technical Review Meeting for new construction**
- 14-3.....VWI Staff placement of new construction relative to IW wellfields and structures.**
- 15.....E-mail documentation of well raw water sampling, and exhibit extracted from the Well VOC Database**
- Well Use SOP when there is evidence of contamination**
- 16-1.....Aerial Maps of Monitoring Well Locations**
- 16-2.....Excerpts from the IW Well Monitoring Plan, July 2005**
- 16-3.....Groundwater Monitoring Well Record from sample program in the IW Well Monitoring Plan.**
- 16-4.....Spreadsheet of Monitoring Well Status**
- 17-1.....Spreadsheet documenting TQP Site Inspections of PSI Sites, 2005**
- 17-2.....Documentation of MCHD Haz Mat recorded spills and TQP Site Inspections**
- 17-3.....IDEM Quarterly Meetings with IW (sign in sheet and site status summaries discussed)**
- 18.....CD Electronic File of PSI Database and hardcopy maps of the five WHPA's**
- 19.....E-mail verification of reports to Consultant and MCHD regarding well disconnect status for support in their efforts to ensure proper closure of private wells**
Exhibit of Quarterly Well Disconnect report to MCHD
Sample Capital Improvement Project for well closure
- 20.....Documentation of Emergency Response Training hosted by VWI, and discussion (Johnson County) related to spill notification, emergency procedures and a future training session in that county**

**Agenda
McWEC
January 18, 2006
MIBOR 3:30**

1. Welcome
2. Financial Report
3. Business problem, Chamber has declined to be future business partner
4. Need to change signature policy on checking account
5. Where are we in evaluation of ordinance effectiveness?
6. Need for established meetings in 2006-Every other month on 2nd Thursday?
7. I believe we need a meeting in January to organize 2006, and the business of
McWEC
8. Report from Christopher Burke /John Mundell
9. TQP report
10. Where is City County Council on ordinance?
11. Any new business?
12. Adjourn

**Johnson County – Wellhead Protection Meeting
Gravel Mine Operation Sampling Discussion
Meeting Minutes
April 19, 2006**

The meeting began at 1:30pm in the Franklin Courthouse Annex. Present was Mark Basch, John Bonsett, Steve Crane, Walt Tharp, Jim McNulty, Jennifer Boyle, Bill Reynolds, Coleen Alley, and Theresa Landewe.

We began the discussion with a review of the parameters outlined in the March 22, 2006 subcommittee meeting. John Bonsett handed out a table of the parameters. The parameters outlined in the table were to be sampled by IMI and Eagle Materials on a quarterly basis. The SOC's are to be sampled twice annually.

The group discussed the Total Coliform parameter. Concern was raised about the ability of "clean" samples to be collected in the field. As this parameter will not show contamination due to gravel mining, it was decided to take it off the list. It was assumed that coliforms would be present in the surface water and greatly reduced in the monitoring wells.

Theresa Landewe handed out a comprehensive list of all the SOC's that have been detected in public water supply wells in Indiana from 1993-2005. The list contained 36 parameters, far fewer than the current list analyzed for IMI. However, Jim McNulty and Bill Reynolds pointed out that the reduced list still required the same number of methods, so the overall cost would be the same as the "longer list." The final SOC list will be determined by IMI and Bargersville at a later date.

Steve Crane handed out the results of IMI's most recent monitoring results for SOC's. There were no detects. IMI had not received the results of the remaining parameters, but expected them soon. We will review those results, along with the Eagle Materials data at our next meeting.

The IMI monitoring wells are screened in the deep part of the aquifer near the same level as the Bargersville Water Supply Wells. This was designed to ensure detection of contamination flowing towards the wells. Jim McNulty suggested that we discuss at the next meeting the appropriate design for monitoring wells.

Jennifer Boyle from IDEM's Watershed Management Section talked about 319 Grants that are available for watershed projects. The funding for a watershed project could also be used to do wellhead protection implementation within that watershed. Currently, there are no watershed projects in northwest Johnson County, but it would be possible to form one. The SWCD in Johnson and neighboring counties could be possible sponsors. The watershed projects are based upon the HUC-11 boundaries and 303(d) listed streams in the watershed. Honey Creek has been taken off the 2006 303(d) list, but other streams in the watershed are on the list. A watershed group would spend approximately 1-2 years in the planning phase and apply for a 319 Grant to help with program implementation. The application deadline is usually October, but may be moved to September. The application sponsor must be a non-profit organization, government agency, or university. The grant requires a 60/40 matching funds. The IMI and Eagle Materials sampling could count as an 'in-kind' contribution. Jennifer handed out the Indiana Watershed Planning Guide to help us with the process if we decide to pursue a watershed project.

The group decided to meet on a Wednesday in Mid-September.

**Agenda
Indianapolis Water Wellfield Update
March 1, 2006**

**Time/Location: 1:00pm/Conf. Room K, IDEM (Shadeland offices)
Attendees: IDEM, City of Indianapolis, Viola Water, interested parties**

- 1) Introductions (Jim Sullivan).
- 2) Discussion of activities within wellfields (Jim Sullivan/Dawn Groves/Group)
 - a) Riverside
 - b) Fall Creek
 - c) South Wellfield
- 3) Coordination of new information when available. (Group)
- 4) Open Discussion (Group)

Adjourn....

**Johnson County – Wellhead Protection Meeting
Gravel Mine Operation Sampling Discussion
Meeting Minutes
April 19, 2006**

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Theresa Landewe handed out a comprehensive list of all the SOC's that have been detected in public water supply wells in Indiana from 1993-2005. The list contained 36 parameters, far fewer than the current list analyzed for IMI. However, Jim McNulty and Bill Reynolds pointed out that the reduced list still required the same number of methods, so the overall cost would be the same as the "longer list." The final SOC list will be determined by IMI and Bargersville at a later date.

Steve Crane handed out the results of IMI's most recent monitoring results for SOC's. There were no detects. IMI had not received the results of the remaining parameters, but expected them soon. We will review those results, along with the Eagle Materials data at our next meeting.

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The group decided to meet on a Wednesday in Mid-September.



JOHNSON COUNTY HEALTH DEPARTMENT

Courthouse Annex
86 West Court Street
Franklin, Indiana 46131

(317) 736-3770
Fax (317) 736-5264

September 6, 2006

Sherrae Davis
Veolia Water
1220 Waterway Blvd.
Indianapolis, IN 46202

Dear Committee Member:

A meeting of the Wellhead Protection group has been scheduled for 1:30 p.m. on Wednesday, September 27, 2006. The meeting will be held in the lower level conference room of the Johnson County Annex.

At this meeting recent sampling data will be reviewed and discussed. Additionally, discussion related to spill notification, emergency response procedures and protocols will be discussed.

Other agenda topics of interest may be added as needed. Looking forward to seeing you on the September 27, 2006.

Sincerely,

A handwritten signature in black ink, appearing to read 'JB', with a stylized flourish extending from the end.

John Bonsett
Dir. of Environmental Health

Enclosure – Copy of April 19, 2006 Minutes

JB/rw

CD of

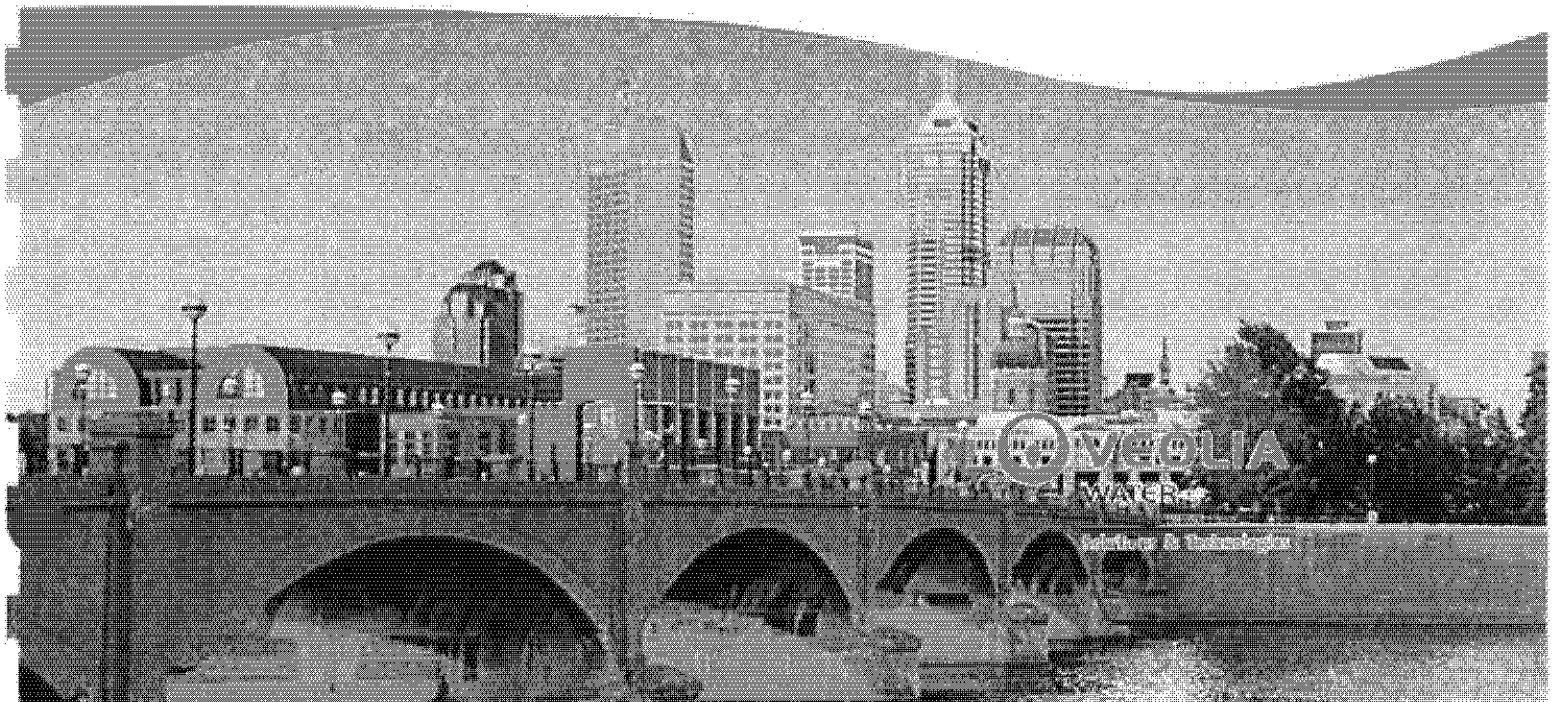
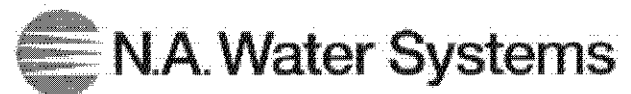


Veolia Water Indianapolis
Review of Wellhead
Protection Area Delineations
March 2007

Veolia Water Indianapolis
Indianapolis, Indiana

Review of Wellhead Protection Area Delineations

March 2007



VEOLIA WATER INDIANAPOLIS
INDIANAPOLIS, INDIANA

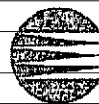
REVIEW OF WELLHEAD PROTECTION AREA DELINEATIONS

MARCH 2007

PREPARED BY:
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WATER

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Review of Well Head Protection Area Delineations

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Section 1 Introduction

Veolia Water Indianapolis (VWI) contracted N.A. Water Systems (N.A.WS) to review the well pumping assumptions made in the models used to delineate wellhead protection areas (WHPA) for the South, Fall Creek, Riverside/White River, Geist, and Ford Road Well Fields. The purpose of this review is to evaluate the continuing validity and conservative dimensions of the WHPAs.

This review is based on comparisons of the model assumptions with records of recent high capacity well usage (in 2004 and 2005) obtained from the Indiana Department of Natural Resources (IDNR). Comparison to recent high-capacity well usage was chosen as the basis for the review in recognition of the likelihood that this factor is the most likely of modeling assumptions to have changed since the delineations were made. Pumping stresses are also recognized to be an important factor, because of their direct influence on capture zones of the Indianapolis wells and on those of wells that may compete for the same groundwater resources. This report describes the methods and results of the review. It is important to note that this review did not include an evaluation or re-running of any of the WHPA models.

James Ewart, Ph.D., was the principal reviewer of WHPAs and author of this report. Dr. Ewart is a Technical Consultant at NA Water Systems and has 27 years of experience with hydrogeologic investigations, groundwater supply projects, wellhead protection studies, and computer modeling of groundwater flow and contaminant transport.

Information Sources

Records of well usage at significant water withdrawal facilities were obtained from the IDNR Division of Water, Water Availability Web site. The records document mandatory annual reporting by facilities having the capability of withdrawing an aggregate volume of 100,000 gallons of water in one day from any combination of surface or groundwater sources. At the time of the review, records were available for calendar years 2003 through 2005. The two more recent years of data were used for the review.

Information regarding well usage assumptions employed in the WHPA models came from two sources, the original reports and electronic files provided by Veolia Water Indianapolis (VWI). The reports used in the review are:

- South Well Field – Indianapolis Water Company South Well Field Wellhead Protection Area Delineation, CH2MHill, March 2000.





- Geist Well Field – Indianapolis Water Company Geist Well Field Capture Zone Delineation, Wittman Hydro Planning and Associates, Inc., and IWC Resources, Inc., March 2000.
- Riverside and Fall Creek Well Fields – Indianapolis Water Company Riverside and Fall Creek Well Fields Capture Zone Delineation, Wittman Hydro Planning and Associates, Inc., and IWC Resources, Inc., March 2000.
- Ford Road Well Field – Indianapolis Water Company Ford Road Well Field Wellhead Protection Area Delineation, Wittman Hydro Planning and Associates, Inc., and IWC Resources, Inc., March 2001.

Information from the reports was supplemented by information extracted from the electronic files provided by VWI. These data included geographic information system (GIS) shape files of the WHPAs, electronic versions of several of the reports or supplementary data, and model input or output files for two of the WHPA delineations (Ford Road and Geist Well Fields). The supplementary information was particularly useful, because the information related to pumping assumptions provided by the reports was, in several cases, found to be incomplete or otherwise different than that found in the electronic files. In these cases, the electronic files were found to be more comprehensive and were taken to be more representative of the assumptions made in the models. This applied particularly in cases of the Geist, Ford Road, Riverside, and Fall Creek Well Field delineations, where the electronic files (either as model files or a well inventory file for Fall Creek Well Field) were found to include pumping from more wells than were documented in the reports.

Methods of Comparison

Three methods were used to compare model assumptions with the 2004-2005 usage records. A direct well-by-well comparison of pumping rates was made for each of the wells in the Indianapolis Water Company (IW) well fields. This comparison highlights the differences of the model assumptions and recent usage. For example, each of the WHPA models, except that of Ford Road Well Field, included pumping from both actual and proposed IW wells, and employed pumping rates equal or near to the actual or assumed capacity of each well. These pumping rates exceed typical usage by a significant fraction (commonly by a factor of two or more). The numbers of proposed wells included in the models in each case also exceeded the numbers of wells installed since the time of the reports. The combined effect of these differences makes the model capture zones (and WHPAs) conservatively large relative to the capture zones required to satisfy the lesser demand currently (2005) imposed on the IW well fields. This is a desirable result, as future demands may be closer to actual capacity than is presently the case.

Pumping of wells other than IW wells was compared largely on the basis of location relative to the IW well fields and WHPA delineations. This was done by two methods. One of the methods is a graphical representation of pumping stresses as a function





of distance from the geographic center of each modeled well field. These plots allow for a simple and direct comparison of recent usage with modeled pumping stresses at distances of up to 20 km from the well fields. These graphs facilitate evaluations of whether current aggregate usage at varying distances from the IW well field is more or less than that assumed in the WHPA delineations. This evaluation is significant from the perspective of groundwater availability. For example, if aggregate usage is greater than was modeled, then it can be assumed that the well field's capture zone would have to be larger than was modeled to satisfy its demand under a condition of less groundwater availability. In other words, the delineated WHPA would be considered non-conservative under current conditions.

The second method of comparison by well location was done by plotting the positions of modeled wells and wells extracted from the IDNR usage records. This was accomplished by using a GIS system (ArcGIS) incorporating a base map that also shows the delineated WHPAs for each well field. The purpose of this comparison is to identify wells proximal to the WHPAs that may not have been included in the WHPA models. Where such wells were identified, an assessment was made as to whether their potential influence on the shape of the IW capture zones warrants re-evaluation of the delineated WHPA.





Section 2

Comparisons of Model Assumptions and 2004 - 2005 Records for Well Pumping

South Well Field

Table 1 compares actual and modeled wells in the South Well Field. The WHPA delineation model incorporated 26 IW wells, half of which were existing and half proposed. Each was modeled at a pumping rate equal or near to its actual or proposed capacity. Six wells were constructed in the South Well Field subsequent to the modeling work, resulting in a total of 19 wells. The modeled aggregate pumping from South Well Field was 31,700 gallons per minute (gpm), or 45.65 million gallons per day (MGD). The modeled demand is approximately 3.6 times the 2004 - 2005 reported demand, and approximately 1.2 times the reported combined capacity of the existing wells. These factors indicate that the modeled demand would tend to produce a conservative capture zone relative to recent usage and the reported well field capacity.

Figure 1 is a graph of cumulative pumping versus distance from the geographic center of South Well Field. The cumulative pumping values are plotted so that each data point indicates on the y-axis the total pumping demand within the distance read from the x-axis. Two comparisons of modeled and actual pumping demand are shown on the graph. Data plotted with filled dots include pumping from wells in the South Well Field, while those with hollow dots exclude those wells. The data series including South Well Field pumping illustrate the conservativeness of the model with respect to aggregate groundwater demand. In other words, the modeled demand is significantly greater than 2004 - 2005 usage to a distance of approximately 4 km, which corresponds roughly to the limits of the model. Furthermore, the modeled aggregate pumping within 4 km exceeds the reported aggregate usage to a distance of 20 km. This conservatism relative to 2004 - 2005 usage is largely the result of the assumed pumping from South Well Field in the model.

The comparison to 2004 - 2005 usage does not answer the question of whether the model delineation remains conservative if the South Well Field were pumped at its capacity. This question is partly answered by comparing the data sets, exclusive of pumping from South Well Field. This comparison, as shown by the data series plotted by hollow dots in Figure 1, indicates that the modeled demand exclusive of the IW wells is much closer to the 2004 - 2005 usage within 4 km. While the MODFLOW WHPA model did not explicitly include wells beyond 4 km, it compensated for their effects by employing a general head (piezometric pressure) boundary condition. However, the modeling report indicates that this boundary condition was based on well water level and production information specific to August 1980 (the model calibration period). It is not clear how the likely changes of





conditions since that time may affect the conservativeness of the model or the WHPA delineation. Such an evaluation is beyond the scope of the comparisons made for this report and would be difficult to make based on the limited information provided by the report on such details of the model. However, the comparison shown in Table 1 indicates that the model delineation is clearly conservative relative to average 2004 - 2005 usage data and is probably also conservative relative to pumping the South Well Field at its reported capacity. This conclusion is based on the modeled South Well Field pumping having exceeded the reported current capacity by 20 percent (see Table 1).

Figure 2 is a GIS map showing the South Well Field WHPA and the locations of water supply wells. Different symbols are used to identify wells used in the model and those extracted from IDNR usage records. Several wells not explicitly included in the model are shown inside or proximal to the WHPA boundaries. A list of these wells and their reported usage rates in 2004 and 2005 is presented in Table 2. Table 2 also lists the pumping rates of those wells explicitly included in the model. The wells more likely to affect the shape of WHPA boundaries are high capacity wells operated by Indiana-American and Bargersville in the south, and by Indiana Power and Light Co. in the north. It is possible that explicit modeling of these wells, particularly those near the WHPA boundary, would affect the shape of the boundary. The likely response of the South Well Field zone of capture would be to "pull back," so as not to overlap the capture zones of the competing wells. Compensating expansion would likely occur in areas where there is less competition. However, such a response should only be expected if the South Well Field were being pumped at rates approaching the modeled rates, which are significantly higher than current usage or even current capacity.

Geist Well Field

The WHPA delineation for the Geist Well Field is unlike those made for the other IW well fields, in that it is based on pumping of existing and proposed IW wells, in addition to wells belonging to the Lawrence Utilities, Inc. This point is not explicitly made in the WHPA delineation report, except in the plate captions indicating that the WHPA encompasses both IW and Lawrence wells. Wells incorporated in the model delineation were deduced from the report figures and the Gflow input file provided by VWI.

Table 3 compares actual and modeled wells in the Geist and Lawrence Well Fields. The WHPA delineation model incorporated 11 IW wells, three of which were existing and eight proposed. Eight Lawrence wells also appear to have been included. Each well was modeled at a pumping rate equal or near to its actual or proposed capacity. Five wells were constructed in the Geist Well Field subsequent to the modeling work, resulting in eight existing IW wells and eight Lawrence wells. The modeled aggregate pumping from combined well fields was 16,800 gpm, or 24.19 MGD. The





modeled demand is approximately 4.4 times the 2004 - 2005 reported demand, and approximately 0.93 times the reported combined capacity of the existing wells. These factors indicate that the modeled demand would tend to produce a conservative capture zone relative to recent usage, but not necessarily with respect to the reported combined well field capacities.

Figure 3 shows cumulative pumping versus distance from the geographic center of the combined well fields. The data series including combined well field pumping illustrates the conservativeness of the model with respect to aggregate groundwater demand. In other words, the modeled demand is significantly greater than 2004 - 2005 usage to a distance of approximately 20 km. This conservatism is largely the result of the assumed pumping from the combined well fields in the model. Comparison of the data series excluding combined well field pumping indicates that the modeled demand remains conservative to a distance of approximately 12 km. Beyond this distance, the cumulative pumping reported for 2004 - 2005 exceeds that in the model. This difference reflects the absence in the model of wells in the western half of IWV's Fall Creek well field (see Figure 4).

Figure 4 shows the Geist Well Field WHPA and the locations of water supply wells. Also shown are the adjacent WHPA for another Lawrence Well Field and a portion of the Fall Creek Well Field WHPA. There is a good correspondence between wells included in the model and those extracted from IDNR usage records within approximately 12 km of the Geist Well Field. As indicated above, the modeled pumping rates at these wells were greater than those determined from the 2004 - 2005 usage records. If the 2004 - 2005 pumping rates at these wells had been incorporated in the model, some expansion of the WHPA may have resulted. However, this should be expected only if the pumping of the combined Geist/Lawrence well fields were at the near capacity rates used in the model.

Riverside/White River Well Field

Table 4 compares actual and modeled wells in the Riverside/White River Well Fields. The WHPA delineation model incorporated 32 IWV wells, 20 of which were existing and 12 proposed. Each was modeled at a pumping rate equal or near to its actual or proposed capacity. Four wells were constructed in the Riverside/White River Well Fields subsequent to the modeling work, resulting in a total of 24 wells. The modeled aggregate pumping from Riverside/White River Well Fields was 31,760 gpm, or 45.73 MGD. The modeled demand is approximately 3.9 times the 2004 - 2005 reported demand, and approximately 1.6 times the reported combined capacity of the existing wells. These factors indicate that the modeled demand would tend to produce a conservative capture zone relative to recent usage and the reported well field capacity.

Figure 5 shows cumulative pumping versus distance from the geographic center of Riverside/White River Well Fields. The data series including the IWV Well Field





pumping shows that the modeled demand is significantly greater than 2004 - 2005 usage to a distance of approximately 14 km. This conservatism relative to 2004 - 2005 usage is largely the result of the assumed pumping from Riverside/White River Well Fields and the Fall Creek Well Field, which was also included in the model. Comparison of the data series excluding Riverside/White River well field pumping indicates that the modeled demand remains conservative to a distance of approximately 14 km.

Figure 6 shows the Riverside/White River Well Fields WHPA and the locations of water supply wells. Also shown are the WHPA and wells of the Fall Creek Well Field. Figure 6 shows that the model did not include wells to the west and south of White River, even though the WHPA extends beyond the river in both of these directions. A list of these wells and their reported usage rates in 2004 and 2005 is presented in Table 5. Table 5 also lists the pumping rates of those wells explicitly included in the model. The absence of wells on the west and south sides of White River probably would have a mixed effect. The influence of greater than modeled demand in this area would have the general effect of requiring an expansion of the Riverside/White River Well Field capture zone to meet its own demand. At the same time, the capture zones of wells proximal to the WHPA boundary (northwest and south of the IW well fields) would tend to impede such an expansion. Therefore, the expansion would probably occur around such impediments. However, this consideration would be germane to a situation in which the Riverside/White River Well Fields were being pumped at rates close to those that were modeled. As indicated above, those modeled rates significantly exceed current usage and current reported capacity. Therefore, the delineated WHPA is probably conservative, regardless of the greater than modeled pumping west and south of the White River.

Fall Creek Well Field

Table 6 compares actual and modeled wells in the Fall Creek Well Field. The WHPA delineation model incorporated 16 IW wells, half of which were existing and half proposed. Each was modeled at a pumping rate equal or near to its actual or proposed capacity. Two wells were constructed in the Fall Creek Well Field subsequent to the modeling work, resulting in a total of 10 wells. The modeled aggregate pumping from Fall Creek Well Field was 14,600 gpm, or 21.02 MGD. The modeled demand is approximately 3.5 times the 2004 - 2005 reported demand, and approximately 1.7 times the reported combined capacity of the existing wells. These factors indicate that the modeled demand would tend to produce a conservative capture zone relative to recent usage and the reported well field capacity.

Figure 7 shows cumulative pumping versus distance from the geographic center of Fall Creek Well Field. The data series including the Fall Creek Well Field pumping shows that the modeled demand is significantly greater than 2004 - 2005 usage to a distance of approximately 8 km. This conservatism relative to 2004 - 2005 usage is





largely the result of the assumed pumping from the Fall Creek Well Field and the Riverside/White River Well Fields, which were also included in the model. Comparison of the data series excluding Fall Creek Well Field pumping indicates that the modeled demand remains conservative to a distance of approximately 8 km.

Figure 6 shows the Fall Creek Well Field WHPA and the locations of water supply wells. Also shown are the WHPA and wells of the Riverside/White River Well Fields. There is a good correspondence between wells included in the model and those extracted from IDNR usage records within approximately 8 km of the Geist Well Field. As indicated above, the modeled pumping rates at these wells were greater than those determined from the 2004 - 2005 usage records. If the 2004 - 2005 pumping rates at these wells had been incorporated in the model, some expansion of the WHPA may have resulted. However, this should be expected only if the pumping of the Fall Creek Well Field were at the near capacity rates used in the model.

Ford Road Well Field

Table 7 compares actual and modeled wells in the Ford Road Well Field. The WHPA delineation model incorporated four IW wells, all of which were existing at the time. Each was modeled at a pumping rate equal or near to its actual or proposed capacity. The modeled aggregate pumping from Ford Road Well Field was 1,800 gpm, or 2.59 MGD. The modeled demand is approximately 1.9 times the 2004 - 2005 reported demand, and approximately 0.9 times the reported combined capacity of the existing wells. These factors indicate that the modeled demand would tend to produce a conservative capture zone relative to recent usage, but not necessarily relative to the reported well field capacity.

Figure 8 shows cumulative pumping versus distance from the geographic center of Ford Road Well Field. The data series including the Ford Road Well Field pumping shows that the modeled demand is greater than 2004 - 2005 usage to a distance of approximately 15 km. This conservatism relative to 2004 - 2005 usage is largely the result of the assumed pumping from the Ford Road Well Field. At distances beyond 15 km, the reported 2004 - 2005 pumping demand greatly exceeds that modeled. Comparison of the data series excluding Ford Road Well Field pumping indicates that the modeled demand is approximately the same as the 2004 - 2005 reported usage to a distance of approximately 14 km. At greater distances, reported pumping demands are much greater than in the model.

Figure 9 shows the Ford Road Well Field WHPA and the locations of water supply wells. Also shown are portions of the WHPA and wells of the Riverside/White River and Fall Creek Well Fields. Figure 9 shows that the model did not incorporate wells to the southeast in Indianapolis (including the Riverside/White River and Fall Creek Well Fields). This is the reason for the noted divergence of reported 2004 - 2005 usage and modeled pumping demand at distances greater than about 14 km from Ford Road Well Field.





It is not clear what effect, if any, the greater than modeled demands at more than 14 km would have on the Ford Road Well Field WHPA. Much of this demand lies to the east of the White River and is at a significant distance relative to the size of the Ford Road Well Field WHPA. It is likely that the WHPA is conservative relative to current usage at the well field, because the modeled demand exceeded current usage by a factor of 1.9. If there is a loss of conservatism, it would probably only be manifested if the well field were pumped at a rate close to its capacity, which is slightly greater than the modeled demand.





Section 3

Conclusion and Recommendations

N.A.WS compared input data used in developing the WHPA delineations with recent IDNR well and usage records. Our assessment indicates that each of the five WHPA delineations is conservative, such that they will allow for future growth and expanded pumping. Average demand from these well fields during 2004 - 2005 ranged from 23 percent (Geist) to 53 percent (Ford Road) of the demand simulated in the WHPA models. Each of the delineated WHPAs is considered to be conservative under this range of actual demands.

It is difficult to estimate precisely the threshold at which increased demand from IW well fields would warrant a re-evaluation of the WHPA delineations. It is likely that the threshold would vary depending on local circumstances, including increased or decreased demand from wells and well fields in the vicinity of the IW well fields. Of the IW well fields, Ford Road has had recent demands at a higher percentage of the modeled demand. The modeled demand from wells and wellfields proximal to Ford Road was also closer to reported 2004 - 2005 usage than was the case for the other well field models. Therefore, the Ford Road WHPA is more sensitive to demand increases either from Ford Road wells or neighboring wells. However, increased demand from existing non-IW well fields is probably more likely in the neighborhoods of the Geist, Riverside, and South well fields. Given these varied considerations, 70 percent of modeled demand from any IW well field is suggested as a general threshold at which the WHPA for that well field should be re-evaluated. We also recommend that a re-evaluation be made if the aggregate reported demand from non-IW high capacity wells within 8 km of any IW well field should increase to 120 percent of the modeled demand.

These guidelines are approximate estimates, because they are judgments based on the analyses presented in this report, which did not include modeling. Significant development, such as the construction of a new non-IW well field or an increased demand of 20 percent or more from an existing non-IW well field within 5 km of any IW well field, might warrant a WHPA re-evaluation independently of the approximate thresholds described above. It is recommended that such re-evaluations include an update of the existing WHPA models or, if that is not practicable, the development of new WHPA models for the purpose of redefining the WHPAs.





Tables



Table 1
South Wellfield

Comparison of Pumping Rates used in WHPA models with 2004-2005 Reported Usage

UTMNORTH	UTMEAST	REGISTRNO	SOURCEID	Modeled	Pump	2004	2005
				Pumping Rate (gpm)	Capacity (gpm)	Usage (gpm)	Usage (gpm)
4391235	569200	03054	SWF-01	1400	1400	0.4	0
4391235	569500	03054	SWF-02*	1400	1400	168	78
4390675	569575	03054	SWF-03*	1400	1400	469	630
4390725	569250	03054	SWF-04	1400	1400	315	1151
4389520	567400	03054	SWF-05	1000	1000	561	177
4389065	567515	03054	SWF-06	1400	1400	308	497
4390220	567200	03054	SWF-07	1000	1400	94	569
4388835	567190	03054	SWF-08	1000	1000	110	165
4388475	567690	03054	SWF-09	1400	1900	0	0
4390425	568110	03054	SWF-10	1800	1800	775	1004
4387960	567400	03054	SWF-11	1400	1400	348	814
4390201	568512	03054	SWF-12	2100	2100	1243	1326
4389176	567819	03054	SWF-13	1000	1000	324	383
4387270	567420	03054	SWF-14	not in model	1200	552	179
4387300	567060	03054	SWF-15	not in model	1400	950	724
4387980	567080	03054	SWF-16	not in model	1800	397	260
4386920	567390	03054	SWF-17	not in model	1000	444	607
4390990	568470	03054	SWF-18	not in model	1000	340	79
4390950	568320	03054	SWF-19	not in model	1400	748	705
4390997	568498		14 (proposed)	1400			
4391023	568208		15 (proposed)	1000			
4387715	567359		16 (proposed)	1400			
4387358	567284		17 (proposed)	1400			
4390946	569242		18 (proposed)	1400			
4390898	569565		19 (proposed)	1400			
4390252	569136		20 (proposed)	1000			
4387621	567062		21 (proposed)	1000			
4387418	568059		22 (proposed)	1000			
4386777	567524		23 (proposed)	1000			
4386768	567144		24 (proposed)	1000			
4386469	567359		25 (proposed)	1000			
4387871	568266		26 (proposed)	not indicated			
Totals				31,700	26,400	8,145	9,351

Note: Proposed wells used in capture zone delineation lack registration number, or pump capacity entries.

Note: *IDNR recorded coordinates for wells SWF-02 and SWF-03 are reversed. This mistake is corrected here, but shown as recorded in the accompanying map.

Table 2
Comparison of Pumping Rates at Non IWC Wells in the Vicinity of South Well Field

REGISTRNO	SOURCEID	Use	Owner	Capacity (gpm)	Distance (km)	2004 pump (gpm)	2005 pump (gpm)	Modeled Rate (gpm)
04534	1	MI	Governors Pointe Home Owners Associati	250	1.5		3	
00565	2M	PS	Indiana-American Water Co., In	500	3.6	355	238	370
00565	1M	PS	Indiana-American Water Co., In	500	3.7	434	347	370
00565	3M	PS	Indiana-American Water Co., In		3.8			370
00565	2O	PS	Indiana-American Water Co., In	700	3.9	40	75	370
00565	1O	PS	Indiana-American Water Co., In	1000	3.9	118	194	370
03437	1	PS	Indiana-American Water Co., In	850	4.0	513	426	
00565	3O	PS	Indiana-American Water Co., In	1000	4.0	54	101	370
03437	2	PS	Indiana-American Water Co., In	450	4.1	473	426	
04148	WRE1	PS	Indiana-American Water Co., In	2500	4.3	790	936	
02307	5	PS	Bargersville Water Works	1200	4.3	11	0	
02307	6	PS	Bargersville Water Works	1000	4.3	207	106	
02307	4A	PS	Bargersville Water Works	1200	4.4	19	3	
04148	WRE2	PS	Indiana-American Water Co., In	2500	4.4	1185	1220	
00759	2	IR	Adrian Orchards	70	5.0	0.3	0	
00899	1	IR	Meyer & Humes	90	5.4	0.0	0.0	
04574	35	IR	Gary Greenhouse, Inc	150	5.4		0.0	
00899	1	IR	Meyer & Humes	45	5.4	0.0	0.0	
02307	9	PS	Bargersville Water Works	2700	5.6		869	
02307	8	PS	Bargersville Water Works	2435	5.7	751	476	
02307	7	PS	Bargersville Water Works	2400	5.8	752	359	
00475	7	EP	Indianapolis Power & Light Co.	3040	6.1	0	0	
02170	1	IR	Brehob Nursery Inc.	180	6.1	39	36	
00475	50-1	EP	Indianapolis Power & Light Co.	1000	6.1	59	80	
00475	6-1	EP	Indianapolis Power & Light Co.	750	6.2	86	118	
00475	70-1	EP	Indianapolis Power & Light Co.	500	6.2	0	0	

Table 3
Geist Wellfield

Comparison of Pumping Rates used in WHPA models with 2004-2005 Reported Usage

UTMNORTH	UTMEAST	REGNO	WELLNO	Modeled Pumping Rate (gpm)	Pump Capacity (gpm)	2004 Usage (gpm)	2005 Usage (gpm)
4417175	586375	03053	GWF-1	1400	1400	84	239
4417025	586375	03053	GWF-2	1400	1400	445	485
4416950	586325	03053	GWF-3	1400	1400	353	564
4417310	586365	03053	GWF-4	not in model	1000	312	186
4417520	586520	03053	GWF-5	not in model	1000	17	5
4416811	586103	03053	GWF-6	not in model	1400	0	131
4416016	585712	03053	GWF-7	not in model	1800	0	20
4416143	585610	03053	GWF-8	not in model	1800	0	24
4417375	586325	03596*	1	1000			
4416225	585975	03396*	9	1000	1000	390	385
4416025	585850	03396*	8E	1000	1000	223	129
4415550	585675	02670*	09	750	500	418	271
4415580	585535	02670*	11	500	750	597	293
4415475	585575	02670*	10	750	1000	597	293
4416315	585837		P-1	700			
4416180	585764		P-2	700			
4416074	585676		P-3	700			
4415412	585442	02670*	08 (P-4)	700	1200	3	264
4417580	586509		P-5	700			
4417580	586509		P-6	700			
4415908	585749	03396*	12 (P-7)	1000	1400	502	434
4414930	585077		P-8	700			
4415095	585077		P-9	1000			
4414387	583353		P-10	700			
Total				16,800	18,050	3,941	3,723

Note: *Lawrence Utilities, Inc wells used in combined capture zone delineation.

Note: Proposed wells used in capture zone delineation lack registration number, or pump capacity entries.

Table 4
Riverside and White River Wellfields
Comparison of Pumping Rates used in WHPA models with 2004-2005 Reported Usage

UTMNORTH	UTMEAST	REGNO	SOURCEID	Proposed Pumping Rate (gpm)	Pump Capacity (gpm)	2004 Usage (gpm)	2005 Usage (gpm)
4404520	569306	01377	RS17	700	700	459	311
4404602	569096	01377	RS18	700	700	0	255
4404618	568911	01377	RS19	700	700	225	44
4404145	569986	01377	RS2	650	650	134	128
4404307	569963	01377	RS22	700	700	0	0
4403925	569900	01377	RS26	600	600	253	307
4403812	570061	01377	RS27	800	800	623	443
4403625	570083	01377	RS28	650	650	0	0
4403670	569726	01377	RS29	600	600	469	423
4404078	569978	01377	RS3	260	200	0	0
4403602	569880	01377	RS7	900	900	698	650
4403665	569873	01377	RS8	900	900	649	277
4403747	569916	01377	RS9	700	700	144	486
4404476	569943	01377	RSA	1400	1350	230	175
4404620	569630	01377	RSB	not in model	500	354	297
4404050	569710	01377	RSC	not in model	1200	510	611
4403800	569960	01377	RSD	not in model	500	199	60
4404643	570949	01377	WR3	1400	1000	781	579
4405125	570725	01377	WR4	not in model	420	0	508
4405222	570509	01377	WR5	1400	1400	0	0
4404420	570806	01377	WR6	1400	1000	445	508
4404908	570845	01377	WR7	1400	1150	698	650
4404764	570823	01377	WR8	1400	901	464	598
4405061	570506	01377	WR9	1400	1400	929	706
4405477	569108		B	900			
4405141	569200		C	900			
4404723	569230		D	1000			
4404639	569615		E	1200			
4404652	569813		F	1200			
4404345	569618		G	1000			
4404093	569714		H	1400			
4404167	570114		I	1000			
4403842	569793		J	1400			
4403636	570236		K	800			
4406483	568956		L	900			
4406828	568814		M	1400			
Total				31,760	19,621	8,261	8,014

Note: Proposed wells used in capture zone delineation lack registration number, or pump capacity entries.

Table 5
Comparison of Pumping Rates at Non IWC Wells in the Vicinity of Riverside Well Field

REGISTRNO	SOURCEID	Use	Owner	Capacity (gpm)	Distance (km)	2004 pump (gpm)	2005 pump (gpm)	Modeled Rate (gpm)
01637	1	EP	WISHARD MEMORIAL HOSPITAL	300	1.0	0	0	12
02773	9	EP	Clarian Health Partners, Inc.	500	1.2	0	0	1
00866	1	IN	Home City Ice	300	1.3	28	26	135
00866	2	IN	Home City Ice	200	1.3	0	0	11
04345	DW-3	MI	Clarian Health Partners	420	1.3	0	0	
04345	DW-2	MI	Clarian Health Partners	420	1.3	0	0	
04345	DW-1	MI	Clarian Health Partners	420	1.3	0	0	
04345	DW-6	MI	Clarian Health Partners	420	1.4	0	0	
04345	DW-5	MI	Clarian Health Partners	420	1.4	0	0	
04345	DW-4	MI	Clarian Health Partners	420	1.4	0	0	
00544	1	IN	Peerless Pump Co. LLC	400	1.4	158	95	264
02773	10	EP	Clarian Health Partners, Inc.	500	1.5	1	2	1
01023	2	IN	Cargill DCI Inc	120	1.6	13	8	
04536	1	IN	Indianapolis Department of Public Work	425	1.8	0	5	
01177	3	IN	Industrial Anodizing Co. Inc.	100	2.5	75	67	
01177	2	IN	Industrial Anodizing Co. Inc.	100	2.5	30	26	
00366	2N	EP	American United Life Insurance Company	485	2.7	47	75	63
00366	5W	EP	American United Life Insurance Company	900	2.7	148	125	60
00366	3W	EP	American United Life Insurance Company	520	2.7	81	69	173
02797	1	EP	ADMINISTRATION	500	2.7	0	0	479
02797	2	EP	ADMINISTRATION	500	2.7	0	0	200
00366	1E	EP	American United Life Insurance Company	1450	2.8	528	507	297
00366	4S	EP	American United Life Insurance Company	870	2.8	229	231	292
02613	1	MI	CB Richard Ellis	700	2.8	0	0	1
02613	2	MI	CB Richard Ellis	700	2.9	107	420	
00747	4	IN	General Motors	1000	2.9	0	37	
00747	3	IN	General Motors	600	2.9	0	0	
02613	3	MI	CB Richard Ellis	700	2.9	0	65	0
02613	4	MI	CB Richard Ellis	700	2.9	10	0	6
00747	2	IN	General Motors	550	3.0	35	0	
00364	1	IN	Diamond Chain Company	100	3.2	88	76	
00364	4	IN	Diamond Chain Company	180	3.2	0	0	

Table 5 (continued)
Comparison of Pumping Rates at Non IWC Wells in the Vicinity of Riverside Well Field

REGISTRNO	SOURCEID	Use	Owner	Capacity (gpm)	Distance (km)	2004 pump (gpm)	2005 pump (gpm)	Modeled Rate (gpm)
00364	2	IN	Diamond Chain Company	160	3.2	0	0	
00364	3	IN	Diamond Chain Company	170	3.3	0	0	
02747	1	MI	Central Parking System	200	3.4	38	16	
00275	1A	EP	Indianapolis Marion County	350	3.4	25	17	19
02747	2	MI	Central Parking System	200	3.4	42	16	
00275	3	EP	Indianapolis Marion County	60	3.5	60	150	67
00275	4	EP	Indianapolis Marion County	20	3.5	0	8	
00275	1B	EP	Indianapolis Marion County	60	3.5	61	60	57
00275	2	EP	Indianapolis Marion County	118	3.5	120	80	112
02790	1	IR	RN Thompson & Associates Inc	200	3.9	5	9	13
00180	1	IR	Indianapolis Motor Speedway Golf Cours	1100	4.0	151	165	
01004	9	IN	Eli Lilly & Co	1300	4.4	0	0	
01004	8	IN	Eli Lilly & Co	1000	4.4	2623	2747	
01004	10	IN	Eli Lilly & Co	1025	4.4	0	0	
01004	11	IN	Eli Lilly & Co	950	4.5	0	0	
03296	1	EP	Praxair Surface Technologies	80	4.5	0	0	
01004	12	IN	Eli Lilly & Co	1000	4.5	0	0	
00414	16	IN	National Starch & Chemical	800	4.6	15	51	
00414	RSP-15	IN	National Starch & Chemical	480	4.7	105	206	
00414	14	IN	National Starch & Chemical	700	4.7	20	39	
01115	1B	IN	Allison Transmission	5	4.8	1	1	
01115	2	IN	Allison Transmission	675	4.8	0	0	
00414	11	IN	National Starch & Chemical	600	4.9	203	88	
04540	2	IN	Hoosier Concrete, LLC	60	5.0	0	0	
01115	BW-10	IN	Allison Transmission	7	5.0	1	1	
01115	BW-5	IN	Allison Transmission	7	5.0	1	1	
01115	BW-6	IN	Allison Transmission	7	5.0	1	1	
01115	BW-7	IN	Allison Transmission	7	5.0	1	1	
01115	BW-8	IN	Allison Transmission	7	5.0	1	1	
01115	BW-9	IN	Allison Transmission	7	5.0	1	1	

Table 6
Fall Creek Wellfield
Comparison of Pumping Rates used in WHPA models with 2004-2005 Reported Usage

UTMNORTH	UTMEAST	REGNO	SOURCEID	Modeled Pumping Rate (gpm)	Pump Capacity (gpm)	2004 Usage (gpm)	2005 Usage (gpm)
4408848	574678	01378	FC2	1400	1400	267	646
4409238	574897	01378	FC5	1000	1000	297	315
4409380	575257	01378	FC7	300	300	32	614
4409244	575117	01378	FC8	600	600	427	364
4410110	575445	01378	FC11	1400	1200	737	651
4409453	574833	01378	FC17	1000	700	122	1
4409789	574166	01378	FC18	1400	1400	1207	995
4410107	574167	01378	FC19	700	700	303	276
4410418	573930	01378	A (FC-21)	700	700	202	360
4410196	573964	01378	B (FC-20)	700	700	202	360
4410126	573744		C	1000			
4409797	573903		D	1000			
4409760	573620		E	1000			
4409531	573633		F	700			
4409699	574619		G	700			
4409382	574307		H	1000			
Total				14,600	8,700	3,796	4,581

Note: Proposed wells used in capture zone delineation lack registration number, or pump capacity entries.

Table 7

Ford Road Wellfield

Comparison of Pumping Rates used in WHPA models with 2004-2005 Reported Usage

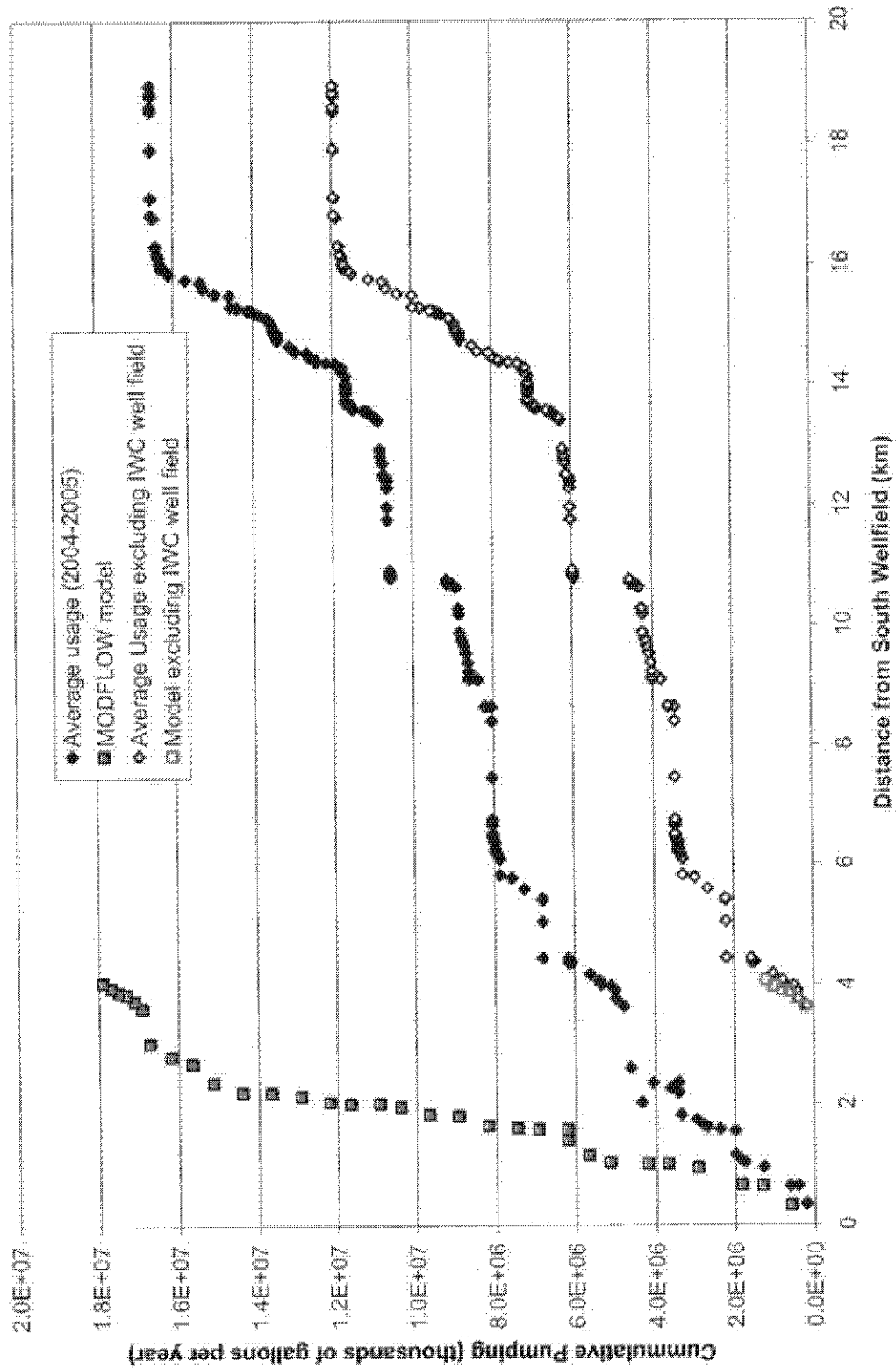
UTMNORTH	UTMEAST	REGISTRNO	SOURCEID	Modeled	Pump	2004 Usage	2005 Usage
				Pumping	Capacity		
				Rate (gpm)	(gpm)	(gpm)	(gpm)
4419126.342	561669.361	00365	FRW-1	600	602	267	310
4419101.547	561660.604	00365	FRW-2	400	596	230	234
4419360.636	561686.451	00365	FRW-3	500	500	262	282
4419988.761	561567.544	00365	FRW-4	300	300	139	128
Total				1,800	1,998	899	954



Figures



Figure 1
Cumulative Pumping versus Distance from South Wellfield



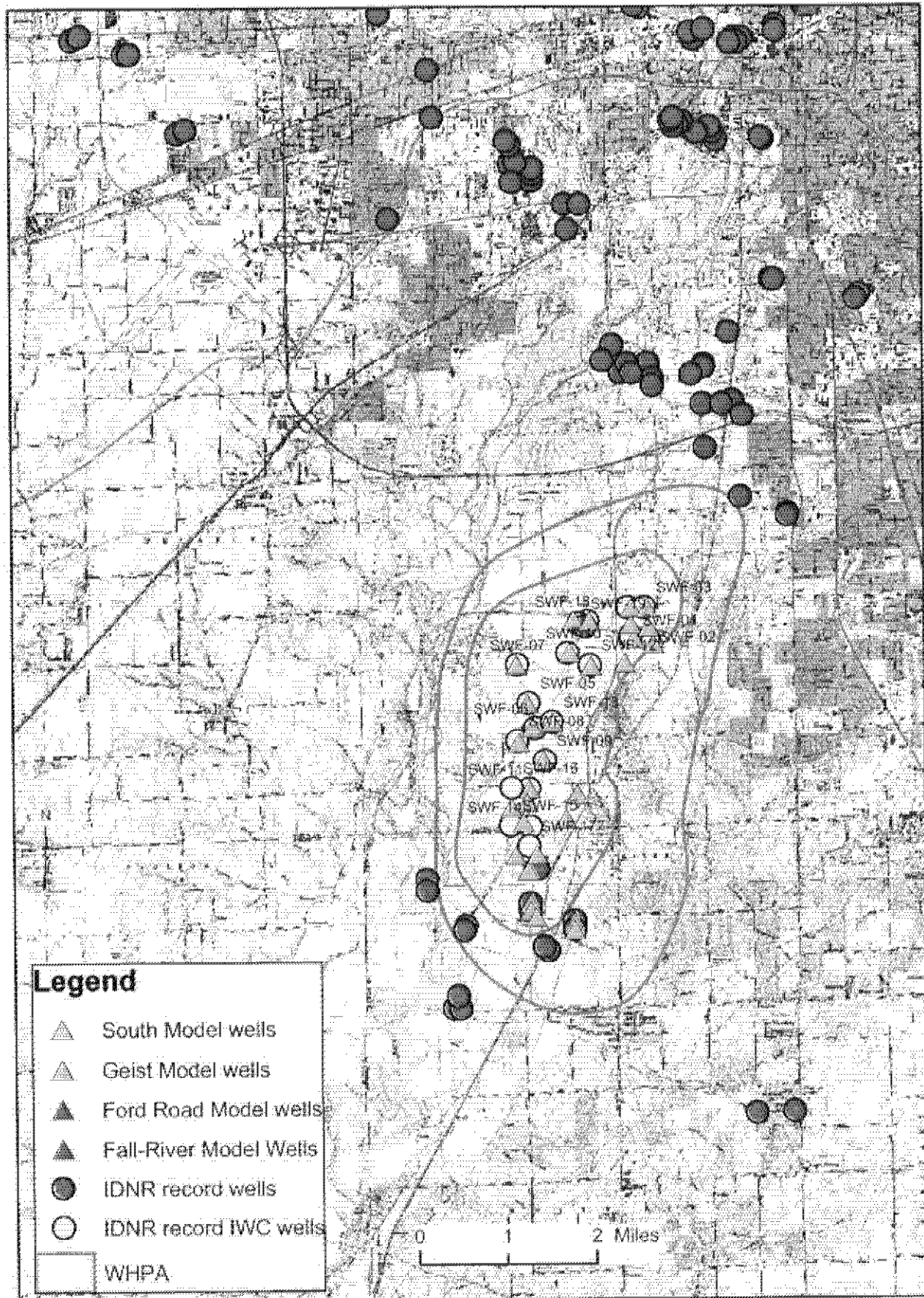
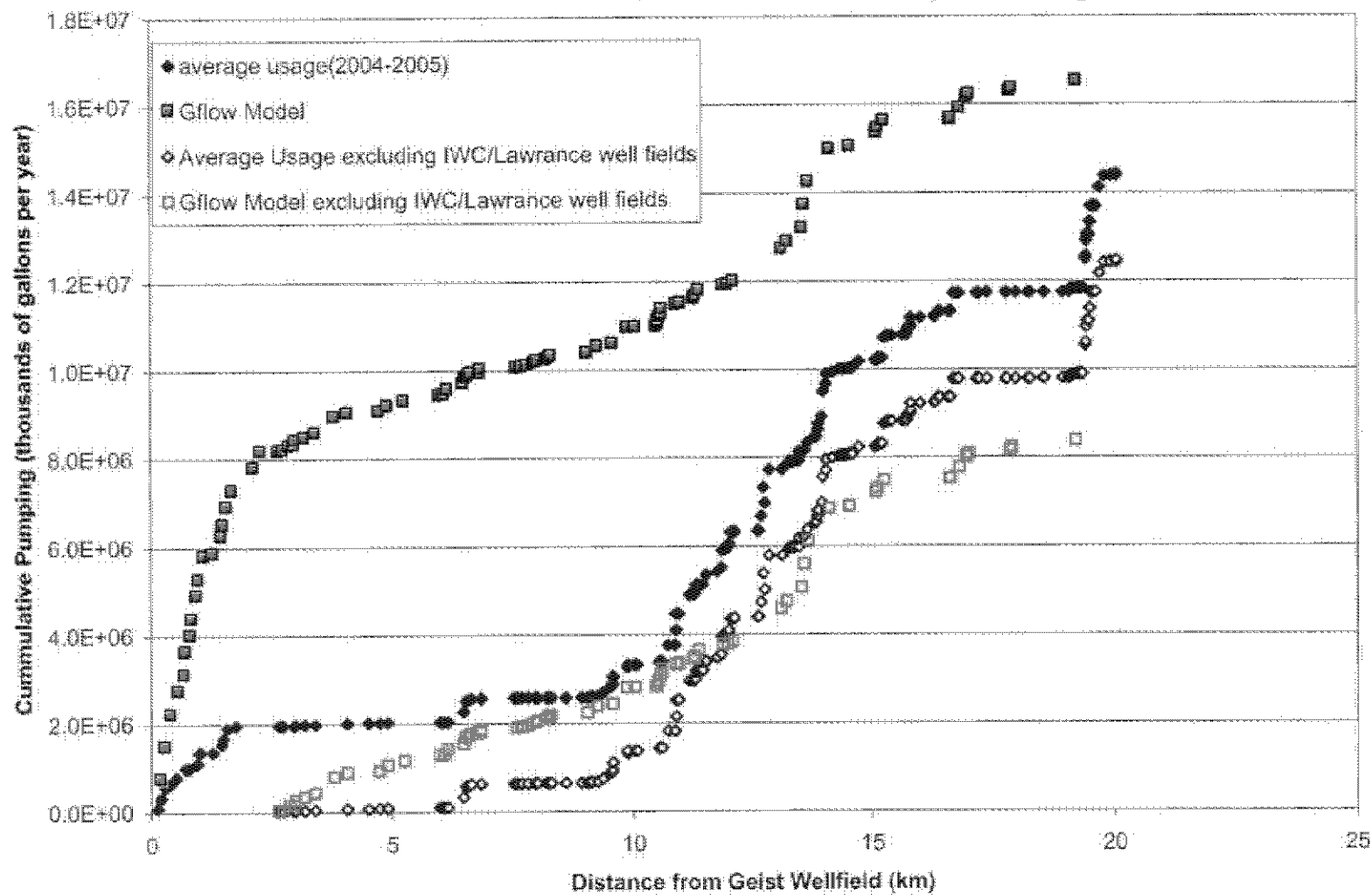


Figure 2
Map showing South Well Field WHPA and well locations

Figure 3
Cumulative Pumping versus Distance from the Geist Wellfield
GFLOW WHPA model versus 2004-2005 Reported Usage



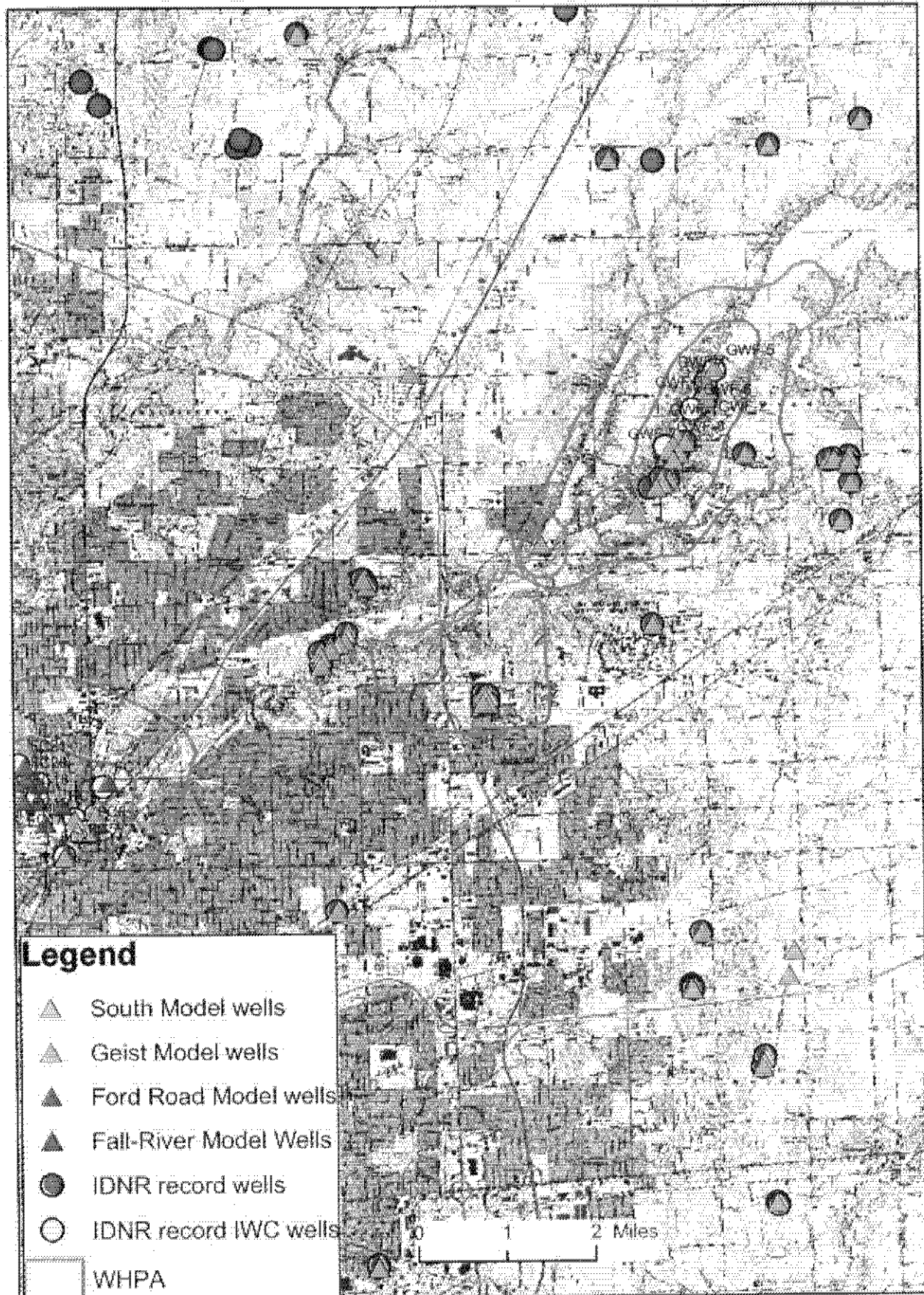
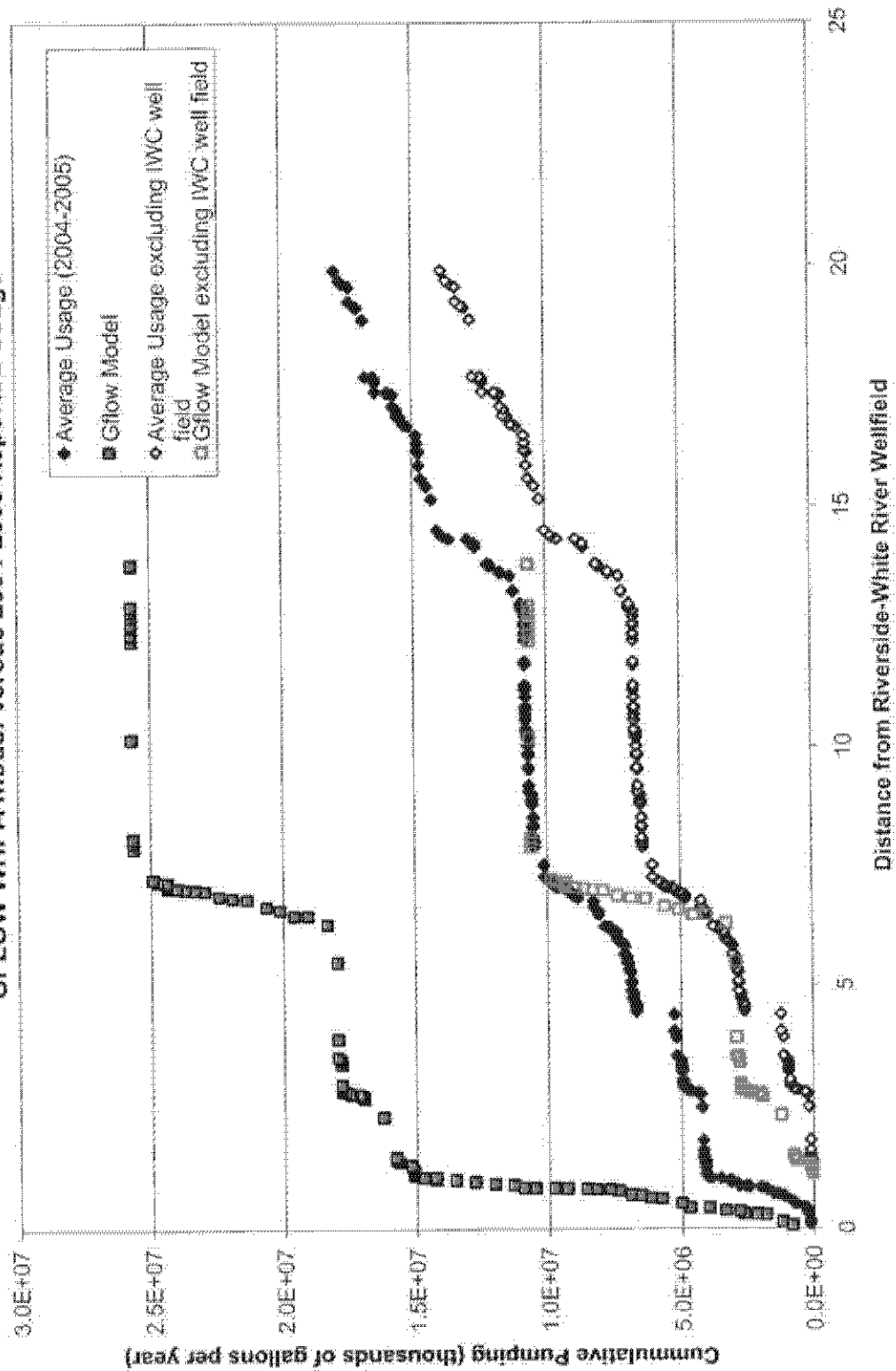


Figure 4
Map showing Geist Well Field WHPA and well locations

Figure 5
Cumulative Pumping versus Distance from Riverside-White River Wellfield
GFLOW WHPA model versus 2004-2005 Reported Usage



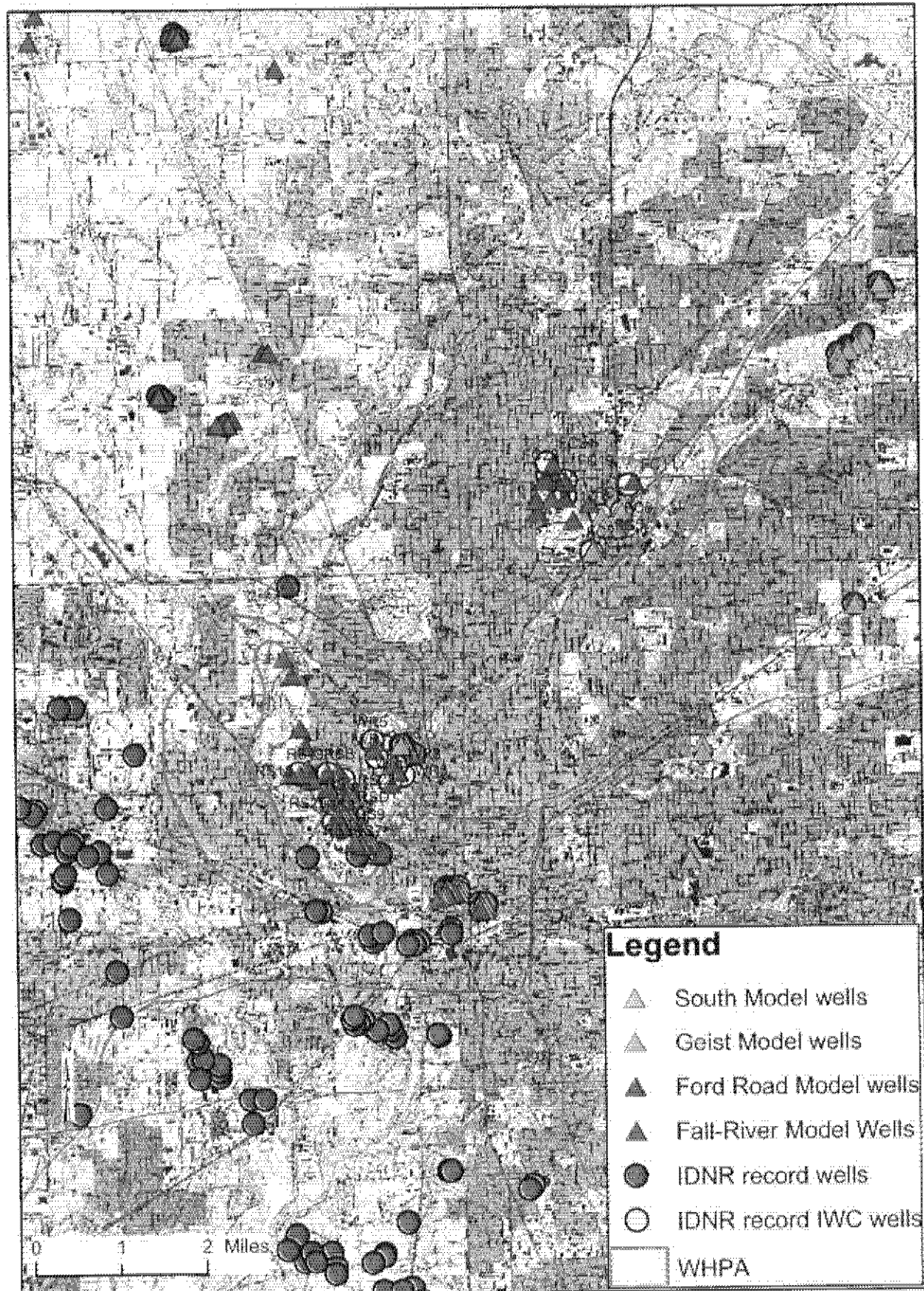


Figure 6
Map showing Riverside and Fall Creek Well Fields WHPA and well locations

Figure 7
Cumulative Pumping versus Distance from Fall Creek Wellfield
GFLOW WHPA model versus 2004-2005 Reported Usage

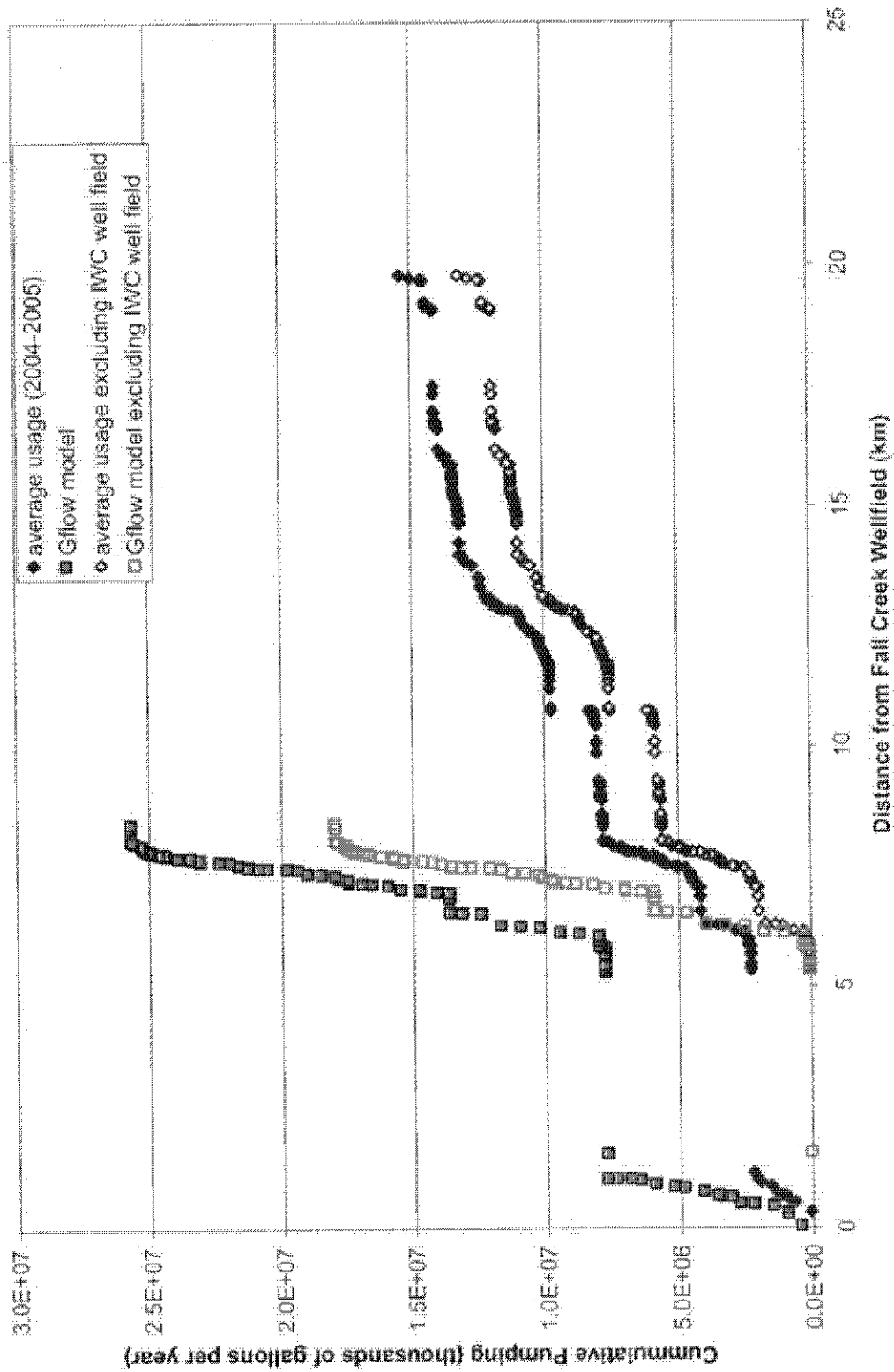
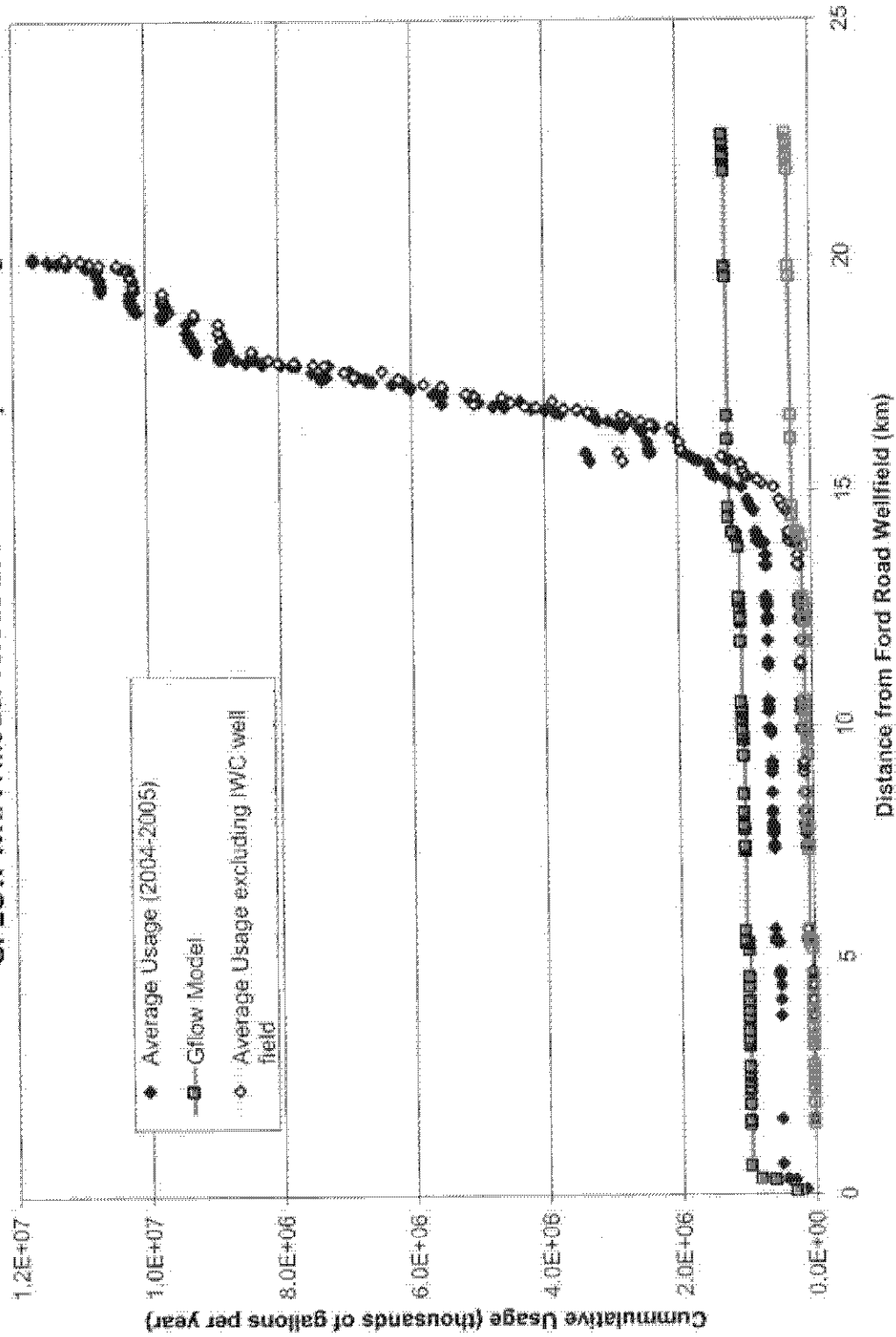


Figure 8
Cumulative Pumping versus Distance from Ford Road Wellfield
GFLOW WHPA model versus 2004-2005 Reported Usage



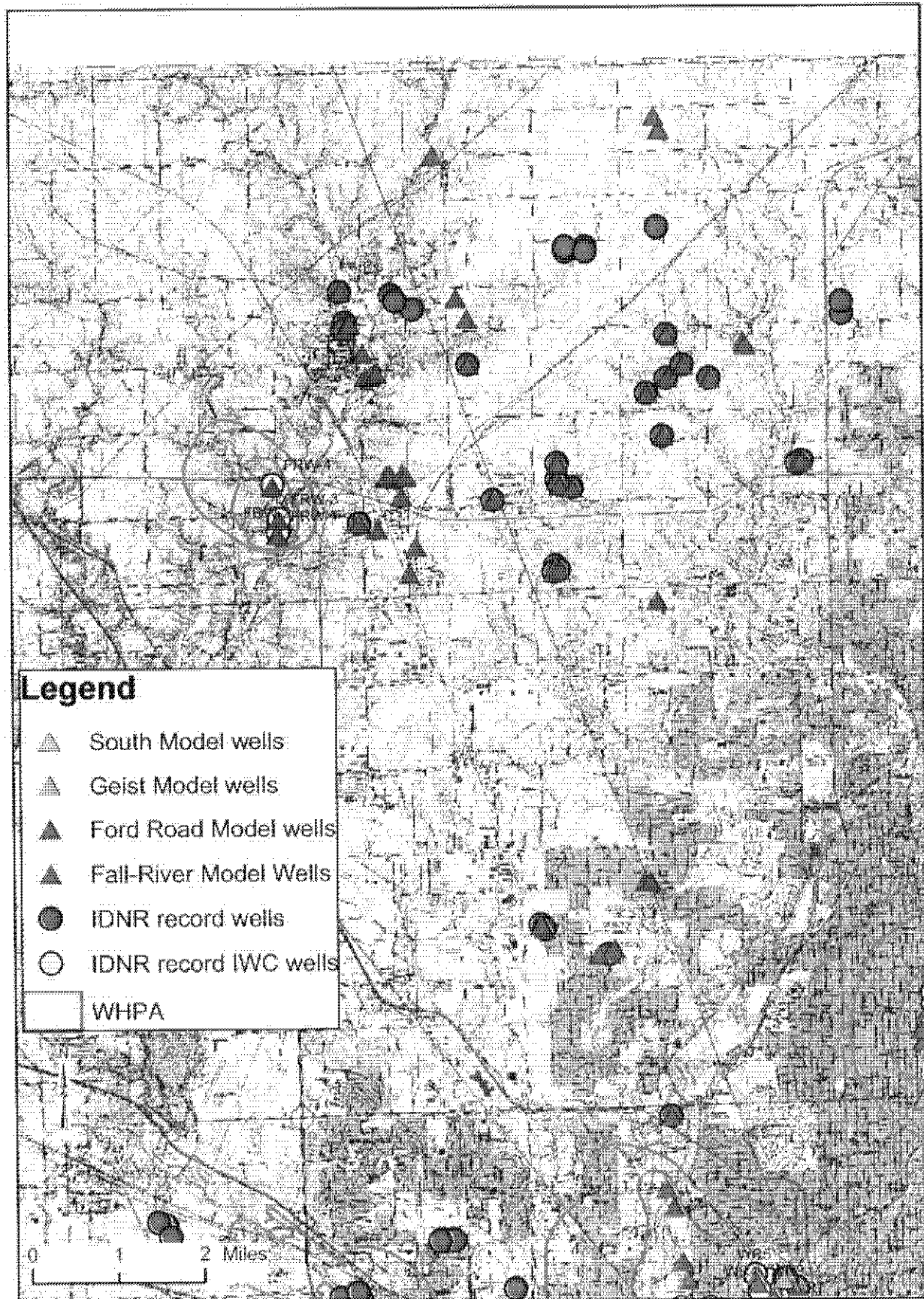


Figure 9
Map showing Ford Road Well Field WHPA and well locations.



Document/Drawing Transmittal

250 Airside Drive, Moon Township, PA 15108
412-809-6000
Fax 412-809-6075

Date: March 7, 2007

Project No: 56007190

RE: Review of Wellhead Protection Area

Delineations

To: Ms. Sherrae Davis
Asset Manager
Veolia Water Indianapolis, LLC
1220 Waterway Blvd.
Indianapolis, IN 46202

Attention: Sherrae

We are sending herewithin:

- ☐ Drawings ☐ Documents
☒ Reports and CDs

Copies	Drawing No.	Description
4		Review of Wellhead Protection Area Delineations (Reports)
2		Review of Wellhead Protection Area Delineations (CDs)
1		CD Containing Data Files Used in WHPA Delineation Evaluations

These are transmitted as checked below:

- ☒ For Your Use ☐ For Review & Comment ☐ Contractor Coordination Req'd
☒ As Requested ☐ For Approval ☐ Drawing Revision Forthcoming
☐

Remarks: _____

Copies to:

Very truly yours,

N.A. Water Systems

by:

Douglas M. Dusbiber
Douglas M. Dusbiber, P.G.

LAND USE EXEMPTION FORM QUESTIONNAIRE
City of Indianapolis
Marion County Wellfield Protection Zoning Ordinance

Name of Facility: _____
Address: _____
Owner's Name: _____
Owner's Address: _____
Applicant's Name: _____
Land Use: _____
Wellfield Name: _____
Wellfield District: _____
ILP Number: _____

Your facility is located in a wellfield. Many residents obtain their drinking water from the groundwater that is beneath your facility. The following questions must be answered prior to submitting your application for a permit under The Wellfield Protection Zoning Ordinance of Marion County. To expedite your review, the questions should be answered to the fullest extent possible and are designed to provide critical information to the Technically Qualified Person and various other members of the review board. Your answers will be reviewed to determine how your site might affect our drinking water supply.

1. Are you, the applicant, either the owner of the facility or a representative agent of the owner? _____
2. Describe the business activities to be conducted on this property. If this is an addition to a pre-existing business, what are those activities? _____

3. Is the proposed land use listed in Section 2.00, B, 2 (page 163 to 166 of the General Ordinance Record, No. 76, 1997)? _____
4. In its ordinary course, does this business have substances other than those exempted in Section 2.00, B, 1, (a) through (g) (page 163 of the General Ordinance Record, No. 76, 1997)? _____

Answer question No. 5 or 6 depending on which one is appropriate to your well district (i.e. W-1 or W-5).

5. If in W-1, in its ordinary course at any point in time, does this business have more or less than the threshold amount of one (1) gallon of liquids in the aggregate or six (6) pounds of water soluble solids in the aggregate? _____
6. If in W-5, in its ordinary course at any point in time, does this business have more or less than the threshold amount of one hundred (100) gallon of liquids in the aggregate or six hundred (600) pounds of water soluble solids in the aggregate? _____

DMD/TQP Representative (signature) _____

Date _____

Land Use Exemption Form Questionnaire

Page 2 of 2

7. Will any water-soluble solids or liquids be used or stored onsite? Please list them and their quantities. _____
8. Does the facility conduct any operations or processes that produce solid or liquid waste products? Please list the types of wastes generated. What is done with these wastes? _____
9. Does or will the facility have any discharge permits? _____
10. Does the facility have any on-site wastewater treatment or disposal system? _____
11. How is stormwater to be managed on the property? _____
12. What will the final ground cover be at this property (i.e. pavement, asphalt, gravel, lawn)? _____
13. Are any oil or chemical spills known to have occurred on the site or if an addition, on the adjacent property/building? If yes, describe. _____
14. Is the facility connected to a sanitary sewer? _____
15. Does the facility have any discharge points such as floor drains, trenches, oil water separators, grease traps, sumps, etc.? _____
16. Does the property provide for rental or leased space? _____
17. Are the occupants or users of the facility aware that they are in a wellfield? _____
18. Besides routine building maintenance, will any other maintenance be performed on the property? _____
19. Are there any tanks, drums or other storage containers on the property? Please list their quantities, products stored and whether they are aboveground or underground. _____

Name of licensed professional (printed)

Date

Name of licensed professional (signature)

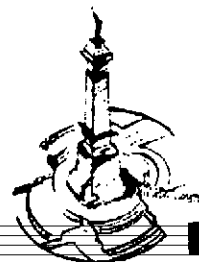
Company

Title

Indiana Professional License No.

DMD/TQP Representative (signature)

Date



City of
Indianapolis
Bart Peterson, Mayor

June 2, 2004

Moench Engineering, P.C.
3996 Clarks Creek Road, Suite 100
Plainfield, Indiana 46168
Attention: Jennifer Lawrence

Southern Dunes Self Storage, L.L.C.
One Indiana Square, Suite 2335
Indianapolis, Indiana 46204
Attention: David Baxter

Re: **Marion County Wellhead Protection Zoning Ordinance**
Technically Qualified Person Review TQP-04007
Southern Dunes Storage Center – Self-Storage Space
7425 Wellingshire Boulevard
Indianapolis, Indiana 46217

Weston W.O. No. 11921.020.003.0113

Dear Ms. Lawrence:

Weston Solutions, Inc. (WESTON_{SM}) has been contracted by the Department of Public Works on behalf of the Department of Metropolitan Development (DMD) to provide Technically Qualified Person (TQP) services to the City of Indianapolis. Pursuant to the Wellfield Protection Zoning Ordinance of Marion County, Indiana (City-County General Ordinance No. 91, 2003) an Improvement Location Permit Application was submitted to the City of Indianapolis for the subject site. WESTON received a copy of this submittal on May 13, 2004, and additional information on May 26, 2004. Upon receipt of this information and the various comments from the Marion County Health Department, WESTON conducted a review on behalf of the Metropolitan Development Commission (MDC). The review was conducted to ensure that the site development is not injurious to the public water supply.

This property is located at 7425 Wellingshire Boulevard, in Indianapolis, Indiana and lies within the One Year Time-of-Travel (W-1) Wellfield Protection Area Zoning District of the Perry Wellfield. According to the information you submitted, the project includes the construction of three current and up to four future additional buildings, which will be used only for self-storage. You further indicated that no chemicals would be stored in the storage spaces and that no tanks or drums would be located on the property.

Department of Public Works
Office of Environmental Services
2700 South Belmont Avenue
Indianapolis, Indiana 46221
(317) 327-2234
(fax) 327-2274
(TDD) 327-6186
indygov.org

June 2, 2004
TQP - 04007
Page 2

WESTON has reviewed your application, the materials you submitted and the various comments received. Based upon our review, the TQP approves the submitted plan as modified subject to the following conditions and/or amendments:

1. All development shall comply with the Wellfield Protection Zoning Ordinance development standards, except as modified herein.
2. Vehicle storage by tenants or occupants shall not occur on unpaved areas of the property.
3. No storage of liquids or water-soluble solids shall occur on site.
4. All tenants or occupants of the on-site storage facilities shall receive along with their rental agreement, a copy of the special requirements notice agreement for handling and storing any materials on site that represent potential groundwater contaminants within the wellhead protection zone (see attached Special Requirements Notice Agreement). Tenants or occupants shall read this notice, sign it, and return it to the site manager prior to storage area use.
5. The site manager shall maintain on file at the site the signed Special Requirements Notice Agreement of all active tenants or occupants.
6. "Water Drop" Signs shall be placed on the front of each building facing the site entrance to indicate that no storage of liquids and/or water soluble solids is allowed (see attached Recommended Sign)
7. An emergency response/spill prevention plan shall be developed. A copy of this plan shall be kept on site and available for inspection by the TQP. An example of this plan is included as an attachment to this letter.
8. Facility personnel shall receive training in the implementation of the plan. Documentation of this training must be kept on site and available for inspection by the TQP (see attached Documentation Form).
9. A spill kit shall be kept on site at all times to handle the occurrence of any chemical products spills that may occur as a result of unauthorized storage by a tenant.
10. No tenant vehicle or equipment maintenance activities including fluid replacement shall occur at the site.
11. No floor drains will be located within the individual storage units.
12. Veolia Water shall be notified within 24 hours of any spill or release occurs at the facility. All spills, regardless of quantity shall be immediately cleaned up. Wastes generated in the cleanup of a spill shall be disposed of properly.
13. All federal, state and local regulations shall be followed should any environmental contamination be encountered during the construction of this facility.
14. The facility owner/operator shall provide notification to the DMD Permits Section if a change in the facility operation should occur that is inconsistent with the conditions outlined herein.

June 2, 2004

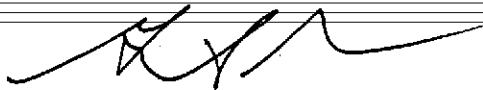
TQP - 04007

Page 3

In addition to the site and development requirements of Section 2.01, D, all development within the W-1 and W-5 Districts shall conform to certain additional requirements. As stated in Section 2.01, H, 2, subpart (d) the development shall be connected to municipal sanitary sewers or combined sewers. Additionally, as stated in Section 2.01, H, 2, subpart (a) all known abandoned wells shall be identified and sealed in accordance with applicable law.

Due to the nature of the on site activities, the TQP will require you to provide documentation of compliance with the approved plan with the submittal of a construction completion affidavit, and will require periodic inspections of the facility by a representative of the TQP to document compliance.

Sincerely,



Gil Butler, LPG, CHMM
WESTON Solutions, Inc.
Technically Qualified Person

cc: Ken Coad-IDPW/OES
Rosemarie Hansell, MCHD
Sherrae Davis, Veolia Water

SPECIAL REQUIREMENTS NOTICE AGREEMENT

Storage Space No. _____

Marion County Wellhead Protection Information

The New Storage Facility complex located at 7425 Wellingshire Boulevard, Indianapolis, Indiana is situated within a designated Marion County Wellhead Protection Area. As such, in order to protect the City's drinking water supplies, the use and storage of chemicals that can potentially contaminate the underlying groundwater is not allowed at this facility. As a tenant of leased space, you are required by this agreement to abide by the following restrictions:

1. No liquids or water soluble solids shall be transported onto the property.
2. No liquids or water soluble solids shall be stored in the leased space.
3. No exchanges of vehicle fluids (for example, gasoline, oil, transmission fluid) or liquid transfer between containers shall occur on site.

Noncompliance with these restrictions may result in immediate termination of the lease agreement with loss of deposit, and referral of the leasee to the Marion County Health Department for possible prosecution.

By signing below, I have read and understood these requirements and agree to be bound by them.

Tenant Name (signature)_____
Tenant Name (printed)_____
Date

RECOMMENDED SIGN LANGUAGE ABOVE OPEN FACILITY SINKS

WARNING:

**NO CHEMICALS SHALL BE STORED
AT THIS FACILITY**



**THIS FACILITY IS LOCATED IN A
DESIGNATED WELLFIELD PROTECTION
ZONE
OF MARION COUNTY, INDIANA**

EMERGENCY RESPONSE/SPILL PREVENTION PLAN FORMAT

Marion County Wellfield Protection Information

NOTE: This format is a generic format guideline only, and should be modified to meet site-specific conditions, chemical types, and concerns. Any plan developed should be reviewed by a certified environmental professional (such as a professional engineer, industrial hygienist, hazardous materials manager, professional geologist, environmental health specialist) with education, experience, and training in the area of spill response and health and safety management.

Name of Facility:

Facility Address:

Facility Telephone Number:

Facility Owner:

Facility Owner Telephone Number:

Emergency Contact Persons:

Emergency Contact Telephone Numbers:

Emergency (hazard, threat, or injury)

911

Poison Control

(317) 929-2323

National Response Center:

(800) 424-8802

Indiana Department of Environmental Management:

(317) 233-7745

Chemical Transportation Emergency Center (Chemtrec):

(800) 424-9300

Local Emergency Planning Committee (LEPC)

for Marion County:

(317) 252-3230

Indianapolis Department of Public Works:

(317) 327-1620

(317) 327-1621

Marion County Health Department (MCHD):

(317) 221-2266

(Call MCHD for advice on any chemical spill)

Veolia Water

(317) 264-7723

Nearest Hospital/Emergency Medical Center Name:

Nearest Hospital/Emergency Medical Center Telephone Number:

Nearest Hospital/Emergency Medical Center Address:

Nearest Hospital/Emergency Medical Center Transportation Route:

Emergency Spill Kit Location On Site (description and map)

Chemical Type, Quantity, Location On-site List (description and map)

Response Guidelines for Handling Major Spills (Greater Than Reportable Quantities)

Reportable Quantity Listing for Chemicals in Use

Emergency Communication Contacts

Spill Reporting (Indiana Department of Environmental Management)

Spill Isolation/Communication to Nearby Residents/Businesses

Absorbent Usage
Spent Absorbent Disposal
Health & Safety Concerns

Response Guidelines for Handling Minor Spills (Less Than Reportable Quantities)

Spill Isolation
Absorbent Usage
Spent Absorbent Disposal
Health & Safety Concerns

Health & Safety Guidelines for Handling Spills

Specific Health Impacts for Employees
Contact of Emergency Medical Assistance
Short-term aid to employee(s)

Material Safety Data Sheets (MSDSs)

**DOCUMENTATION OF EMPLOYEE TRAINING
EMERGENCY RESPONSE/SPILL PREVENTION PLAN
IMPLEMENTATION**

The following employees of Southern Dunes Self-Storage Facility, located at 7425 Wellingshire Boulavard in Indianapolis, Indiana have received training in implementing the site *Emergency Response/Spill Prevention Plan* as required by the Marion County Wellhead Protection Zoning Ordinance.

[illegible]

Date Prepared: 10/27/99 14:22

TQP Tracking Report

TQP Project #	Wellfield	Project Name	Address	Contact (s)	Phone #	Date Received	Date Due	Date Delivered	Delivered To	Cost of Completion	Comments
95-HSE-5B	Southside	Kopetsky Park	5700 Kopetsky Drive	???							
95-HSE-6	Southside	TTX Facility	1930 W. Santa	TTX, Inc							
95-HSE-7	Fall Creek	U.S. Towel, Inc.	4024 Millersville Road	U.S. Towel							
96-HSE-1	Riverside	Gordon Clark	1819 W. 16th St								
96-HSE-10	Riverside	Pepper Construction	1850 W. 15th St.								
96-HSE-2	Southside	Milestone Contractors	5696 Belmont								
96-HSE-9	Riverside	IN State Motor Pool	1448 Stadium Dr.	One Am. Square							
97-HSE-1	Southside	O.K. Sand and Gravel	5719 S. Concord St	Blankenship							
TQPS7001	Fall Creek	52nd St. Storage	1100 E. 52nd St.	Kendall Construction							
1998											
98001	Southside	Discover Valve	1325 W. Thompson	Lara Daly - Banning Eng.	839-2581	04/29/98	05/13/98	5/20/98	Donna Meijer		delayed due to missing info from applicant
98002	Southside	Builders Concrete	5540 S. Belmont Ave.	Roger Ward - Schneider Corp	888-8282	07/06/98	07/20/98	8/26/98	Kirt Havlin		delayed due to missing info from applicant
98003	Southside	Grumpy Eds	1345 W. Southport	Donald Fisher - Insight Eng.	848-8049	11/10/98	11/24/98	11/30/98	Kirt Havlin		delayed due to missing info from applicant
98004	Geisel	Q-Lube	9825 Fall Creek Pkwy	R.W. Hughes - Q-Lube	770-772-0103	12/22/98	01/05/99	1/27/99	Kirt Havlin		delayed due to missed site by permits
98005	Fall Creek	Walker Cleaners	1846 E. 45th St.	J. Mathews, C. Hogarth	815-1858, 486-2783	12/17/98	12/31/98	12/22/98	Kirt Havlin		
1999											
99001	Southside	Denny's Marina	6400 Kopetsky Dr.	J. Dahnke, S. Withers	785-448-6988	02/04/99	02/18/99	2/18/99	Kirt Havlin		
99002	Southside	Speedco Facility	5191 Harding Lane	Scott Orbaugh - TOP Const.	776-9986	02/09/99	02/23/99	3/1/99	Kirt Havlin		delayed due to missing info from applicant
99003	Riverside	Speedway Body Shop	2534 W. 16th St.	Donald Blue - Blue Engin.	848-2841	02/18/99	03/04/99	3/12/99	Kirt Havlin		delayed due to missing info from applicant
99004	Riverside	Herron School of Art	1350 Stadium Dr.	Alan Blunk - Blackburn Arch.	875-5500	02/22/99	03/08/99	3/12/99	Kirt Havlin		delayed due to missing info from applicant
99005	Fall Creek	Suncoast Coffee	1115 E. 52nd St	Max Kendall - Kendall Const.		04/01/99	04/15/99	3/10/99	Kirt Havlin		went through process backwards
99006	Southside	Belmont Sand Plant	5320 South Belmont Ave.	Max Williams - Martin Marietta	573-4460	03/10/99	03/24/99	4/28/99	Kirt Havlin		No plans sent with request
99007	Fall Creek	Advance Auto Parts	5125 N. Keystone	M. Sapp, C. Jarrett - Fergus Construction	352-9041	04/28/99	05/12/99	5/5/99	Kirt Havlin	8/9/99	cc: John Westergreen (sp?)
99008	Riverside	Courtesy Cleaning	805 W. 10th	Kent Seeman - Hermes Equip	800-851-9939	05/07/99	05/21/99	5/19/99	Kirt Havlin		cc: John Westergreen (sp?)
99009	Southside	Redline Graphics	6430 S. Belmont Ave	T&W Corp	244-7637	05/18/99	06/01/99	6/2/99	Donna Meijer	9/20/99	
99010	Fall Creek	Marathon	3492 N. Keystone Ave	Scott Yeager - Yeager Const.	770-7380	05/20/99	06/03/99	7/18/99	Kirt Havlin		cc: JW, applicant did not return calls from J. Mundell
99011	Fall Creek	Concrete Finishing	2502 E. 55th Place	M. Graffius - Big 3, M. Boyle - BCMI	257-2531, 268-0543	06/03/99	06/17/99	6/17/99	Kirt Havlin		
99012	Southside	Kopetsky Park	5757 Kopetsky Drive	T. Davis - Runnebohm Const.	398-4722	08/30/99	07/14/99	7/1/99	Kirt Havlin		
99013	Southside	Former OK sand gravel	2800 W. Epler Ave.	Thomas Blankenship		07/07/99	07/21/99	7/22/99	Kirt Havlin		
99014	Southside	Kopetsky Park	5719 Kopetsky Drive			07/07/99	07/21/99	8/19/99	Kirt Havlin		missing info
99015	Southside	Former O.K. Sand & Gravel	3220 W. Southport Rd	Wm Cole - Lewis Engineering	839-2412	07/30/99	08/13/99	7/30/99	Kirt Havlin		quick job
99016	Riverside	Bredenshtien & Assoc	1920 Martin Luther King Dr.	Andrew Churchill - Architecture	842-5795	08/06/99	08/20/99	8/11/99	Kirt Havlin		
99017	Southside	Office/Warehouse	6007 S. Harding St.	Richard Hoover - Civil Designs	??	10/01/99	10/15/99	10/4/99	Kirt Havlin		signed by Ken Coad, Exempt site.
99018	Riverside	Crawford's Bakery/Deli	1809 N. Capitol Ave.		??	10/01/99	10/15/99				
99019	Southside	Park 37 S. Truck Wash	5150 Harding Lane	Roger Ward - Roger Ward Eng.	251-1738	10/20/99	11/03/99				
99020	Riverside	IN C.A.P. bldg improv	1845 W. 18th St	Raoul Moore - IN CAP	538-4232	10/21/99	11/04/99				
							01/13/00				
							01/13/00				
							01/13/00				
							01/13/00				

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95-HSE-7	Fall Creek	U.S. Towel, Inc.	4024 Millersville Road	U.S. Towel							
96-HSE-1	Riverside	Gordon Clark	1819 W. 15th St								
96-HSE-10	Riverside	Pepper Construction	1850 W. 15th St								
96-HSE-2	Southside	Milestone Contractors	5686 Belmont								
96-HSE-9	Riverside	IN State Motor Pool	1448 Stadium Dr.	One Am. Square							
97-HSE-1	Southside	O.K. Sand and Gravel	5719 S. Concord St	Blankenship							
TOP97001	Fall Creek	52nd St. Storage	1100 E. 52nd St.	Kendall Construction							
1998											
98001	Southside	Discover Volvo	1325 W. Thompson	Lara Daly - Banning Eng.	839-2581	04/29/98	05/13/98	5/20/98	Donna Mejer		delayed due to missing info from applicant
98002	Southside	Builders Concrete	5540 S. Belmont Ave.	Roger Ward - Schneider Corp	898-8282	07/06/98	07/20/98	8/26/98	Kirt Havlin		delayed due to missing info from applicant
98003	Southside	Grumpy Eds	1345 W. Southport	Donald Fisher - Insight Eng.	848-9040	11/10/98	11/24/98	11/30/98	Kirt Havlin		delayed due to missing info from applicant
98004	Geist	Q-Lube	9825 Fall Creek Pkwy	R.W. Hughes - Q-Lube	770-772-0103	12/22/98	01/05/99	1/27/99	Kirt Havlin		delayed due to missed site by permit
98005	Fall Creek	Walker Cleaners	1846 E. 46th St.	J. Mathews, C. Hogarth	815-1868, 486-2783	12/17/98	12/31/98	1/22/99	Kirt Havlin		
1999											
99001	Southside	Denny's Marine	6400 Kopetsky Dr.	J. Dahnke, S. Withers	765-448-6988	02/04/99	02/18/99	2/18/99	Kirt Havlin		
99002	Southside	Speedco Facility	5191 Harding Lane	Scott Orbaugh - TOP Const.	776-9996	02/09/99	02/23/99	3/1/99	Kirt Havlin		delayed due to missing info from applicant
99003	Riverside	Speedway Body Shop	2534 W. 18th St.	Donald Blue - Blue Engin.	849-2641	02/18/99	03/04/99	3/12/99	Kirt Havlin		delayed due to missing info from applicant
99004	Riverside	Herron School of Art	1350 Stadium Dr.	Alan Blunk - Blackburn Arch.	875-5500	02/22/99	03/08/99	3/12/99	Kirt Havlin		delayed due to missing info from applicant
99005	Fall Creek	Suncoast Coffee	1115 E. 52nd St	Max Kendall - Kendall Const.		04/01/99	04/15/99	3/10/99	Kirt Havlin		went through process backwards
99006	Southside	Belmont Sand Plant	5320 South Belmont Ave.	Max Williams - Martin Mariette	573-4460	03/10/99	03/24/99	4/28/99	Kirt Havlin		No plans sent with request
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99010	Fall Creek	Marathon	3402 N. Keystone Ave	Scott Yeager - Yeager Constr	770-7380	05/20/99	06/03/99	7/16/99	Kirt Havlin		cc: JW, applicant did not return calls from J. Mundell
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99014	Southside	Kopetsky Park	5719 Kopetsky Drive			07/07/99	07/21/99	8/19/99	Kirt Havlin		missing info
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99017	Southside	Office/Warehouse	6007 S. Harding St.	Richard Hoover - Civil Designs	??	10/01/99	10/15/99	10/4/99	Kirt Havlin		signed by Ken Coad. Exempt site.
99018	Riverside	Crawford's Bakery/Deli	1609 N. Capitol Ave.		??	10/01/99	10/15/99				
99019	Southside	Park 37 S. Truck Wash	5150 Harding Lane	Roger Ward - Roger Ward Eng	251-1738	10/20/99	11/03/99				
99020	Riverside	IN C.A.P. bldg improv.	1845 W. 18th St.	Raoul Moore - IN CAP	638-4232	10/21/99	11/04/99				
							01/13/00				
							01/13/00				
							01/13/00				
							01/13/00				

Date Inspected	TQP Project #	City Project #	Project Name	Address	Site Contact	Waste Field	Facility Use	Findings	DMD Inspector	DMD Enforcement/Compliance	Re-Inspection Date
4/28/2005 05/16/05	98004	99-012701	Jiffy Lube #2458 (formerly Q Lube #3728)	9825 Fall Creek Road	Jon Israels	Geist W-1	Oil Change Location	Sumps installed but not sealed from the basement, no floor sealer, need additional 2ndry containment, overflow alarm in used oil tank not working, numerous oil leaks.	Mark Hughes 5570	TOP Inspection letter to be prepared and mailed to the applicant week of 5/13/05 giving them 15 days to comply. Reinspection conducted on 6/16/05. Efforts being made to bring into compliance. Jiffy Lube has made several follow-up telephone calls on compliance related issues while they bring the site back into compliance.	Week of 3/29/06
2/7/05 (MCHD) 2/26/05 (MCHD) 6/16/05 12/16/05	00006	00-061301	Tuchman Cleaners	79th & Sunnyside	Lisa Hughes	Geist W-5	Dry Cleaners	Chemical storage with no 2ndry containment, concrete crack	Mark Hughes 5570	Letter Sent out by DMD 5/5/05. 6/16/05 - Out of Compliance - 1 bucket outside of 2ndry. 12/16/05 - In Compliance	NA
06/29/05	02003	02-040802	BP Connect-Fall Creek	3750 East Fall Creek Parkway	Norris Motion	Fall Creek W-5	Gasoline Station	Spill kit, no training, spill history, no notification	Shelly Grimes 5569	2/7/05 (MCHD) Out of Compliance. 2/28/05 (MCHD) In compliance. Letter Sent out by DMD 5/5/05. Inspection made on 6/16/05. found to be in compliance for 2ndry containment. Inspection made on 12/16/05 Site is in compliance.	NA
06/29/05	010024	02-010701	BP Connect	5201 North Keystone Avenue	Bob Marshall	Fall Creek W-5	Gasoline Station	Spill kit, no training	Shelly Grimes 5569	Letter sent by DMD 5/5/05. 6/29/05 - In Compliance	NA
6/29/2005 1/23/06	02002	02-021901	317 Motor Auto Sales (Turhan Motors)	3698 North Keystone Avenue	Randall McMahan	Fall Creek W-5	Automobile Storage	Storing bucket of oil	Shelly Grimes 5569	Letter sent by DMD 5/5/05. 6/29/05 - Out of Compliance Auto repairs on-site. No floor coating. Chemicals stored without secondary containment, staining outside building. Inspection 1/23/06 - In compliance. 2/9/06 process modification notification was approved. Awaiting completion of new construction.	April 2006
8/18/2005	02016	02-120602	Republic Services Garage	829 Langdale Avenue	Jerry Kreuzman	Riverside W-1	Vehicle Maintenance	Slaining, concrete cracks, no monthly inspections conducted, lacking 2ndry containment, no ER plan, inadequate signage, no supplier notification	George Krack 4132	Letter Sent out by DMD 5/5/05. Inspection on 6/16/05 - Out of Compliance Floor coating degraded. Chemicals stored outside Secondary, oil spills noted. Employee training not provided during inspection.	3/29/03
8/18/2005	01021	01-120701	UFUI Biotech Facility	1345 West 16th Street	Kevin Mauser	Riverside W-1	Biotech Research & Training	2ndry containment, need supplier notification	George Krack 4132	Letter Sent out by DMD 5/5/05. 6/16/05 - In Compliance	NA
4/5/05 8/29/05 6/23/05	99010	99-071601	Marathon Convenience Store	3402 North Keystone Avenue	Nadeem Butt	Fall Creek W-5	Gas Station & Convenience Store	No signage at pumps, no signed supplier notification forms, spill plan not adequate, no training documentation, spill kit not accessible	Shelly Grimes 5569	Letter sent by DMD 5/5/05. Reinspection after 5/20/05. MCHD Inspected on 2/7/05 (Out of Compliance) and 4/5/05 In-Compliance. 6/29/05 - Out of Compliance Supplier Notification not provided - 6/23/05 In Compliance Supplier Notification provided.	NA
6/27/2005	02015	03-032501	Christ Temple Garage	430 W. Fall Creek Pky, N. Dr	Marvin Bacon	Fall Creek W-5	Bus Maintenance Facility	No spill plan, no sign, no spill kit	George Krack 4132	Letter Sent out by DMD 5/5/05. 6/16/05 - In Compliance	NA
6/21/05 12/16/05	03008	03-071101	Martin Marietta Shop Bldg	5620 South Belmont	Jerry Crane	Perry W-5	Shop Building	Floor Cracks, no inspections, no 2ndry containment, no signage	Mike Richards 5586	Letter Sent out by DMD 5/5/05. 6/21/05 - Out of Compliance - Bulk Chemicals not in Secondary containment, grease drums upside down outside Secondary containment. 12/16/05 - In Compliance	NA
6/13/05 12/16/05	01022	01-121801	Car X	5640 Crawfordville Road	Doug Grace	Speedway W-5	Car Maintenance Facility	Need some 2ndry containment, no floor inspections	Ryan Hunt 5543	Letter Sent out by DMD 5/5/05. 6/13/05 - Out of Compliance - Mobil transmission waste tank without secondary containment, Small spill near AST. Degraded floor coating/No floor Sealant inspection records. 12/16/05 - In Compliance	NA
6/27/2005	08004	00-022902	Clark's Mini Storage Complex	6110 South Belmont	Tom Clark	Perry W-5	Storage	No signage, no spill kit, rental agreement did not prohibit storage of chemicals	Mike Richards 5586	Letter sent out by DMD 5/5/05. 6/27/05 - In Compliance	NA

Date Inspected	TQP Project #	City Project #	Project Name	Address	Site Contact	Wellfield	Facility Use	Findings	DMD Inspector	DMD Enforcement/Compliance	Re-Inspection Date
8/21/05 12/16/05	02026	03-012701	JDF Enterprises	1339 Sunday Drive	Jack Nies	Perry W-1	Chemical Storage	No spill plan, training, floor inspection	Mike Richards 5586	Letter sent out by DMD 5/5/05. 6/21/05 - In Compliance for items listed in 5/5/05 Letter Out of Compliance for Bulk Chemicals stored outside 2ndary. Vehicle maintenance in Garage/oil spill from vehicle maintenance/Septic sample results not provided. 12/16/05 - In Compliance	NA
6/21/05 12/16/05	010001	01-021601	Prairie Farms	5750 S. Harding Street	Ron Kitchner	Perry W-5	Dairy Facility	Staining, concrete cracks, no monthly inspections conducted	Mike Richards 5586	Letter Sent out by DMD 5/5/05. 6/21/05 - Out of Compliance - Epoxy Degraded/ Epoxy inspection and repair not being done, Facility Personnel not trained. Process to Change for fueling off-site. Change of Process Notification/Follow-up inspection. 12/16/05 - Out of Compliance - Epoxy sealant degraded/No sealant inspection, No employee training of Emergency Response - AST continues to be used to fuel vehicles.	TQP to call DMD Compliance to schedule re-inspection for Fine.
09/09/05	00005	00-041302	Mashead	5520 Kopetsky Drive Unit B	John Kukehan	Perry W-5	Industrial Hose	No change in process in notification received, 275-gal waste oil AST insufficient secondary, No chemical coating on floor, No Emergency response plan, no employee training, no chemical supplier/waste hauler notification, no secondary containment of air compressor and hydraulic machines blow-down, insufficient secondary for miscellaneous chemicals	Mike Richards 5586	10/22/04 - Out of Compliance 9/9/05 - Out of Compliance	Applicant sent paper work. Will Check Week of 3/16/06
09/09/05	99014	99-081902	vacant	5719 Kopetsky Drive - Unit H	George Kopetsky	Perry W-5	Vacant	Insufficient Secondary	Mike Richards 5586	10/22/04 - Out of Compliance 9/9/05 - In Compliance	NA
09/09/05	95-HSB-5B	95-091801	Indy Expecting	5850 Kopetsky Dr Unit C	Sam Blackburn	Perry W-5	Courier/shipping	No Notification of Change in process sent to DMD, Vehicle maintenance being conducted, Parts washer without 2ndary, no floor coating, No Emergency Response plan/employee training/spill kit, no notification to waste hauler	Mike Richards 5586	10/22/04 - Unit A-B in Comp, Unit C-Out of Compliance Oil Changes being done, (11) 55-gal drums w/o secondary (9) VHO (2) New Oil, No Floor Coating, DMD/TQP not notified of process change, Unit D, E, F in compliance Unit I DMD not Notified of Change, no 2ndry of paints, air compressor discharge run directly outside, no Em Resp/tnng/spill kits avail or documented 9/9/05 -Unit C - Out of Compliance Vehicle maintenance being performed, Chems not stored in sufficient 2ndry, Parts washer w/o 2ndary, No floor coating, No Em Response Plan/Empl Training/Spill Kit, No Waste hauler Notif., DMD not notified	Week of 3/13/06
09/09/05	99014	99-081902	Machining Center, Inc.	5719 Kopetsky Drive - Unit F	Daniel Mateatt	Perry W-5	Machine Shop	Some 55-gal drums without suitable secondary, storage mixing containers all several machines without suitable secondary, miscellaneous chemicals without secondary, all machines with water-soluble oils need secondary, out of service equipment must be emptied of oils before storage if outside secondary containment, machining area at southeast corner of production area must have permanent secondary containment installed, empty drums must be stored inside secondary, provide a list of all chemicals and quantities including MSDSs to TQP, No emergency response plan nor employee training has been documented, No WHP signs posted over sinks or drains.	Mike Richards 5586	3/3/04 - Units A-E - Bauer Tire, Unit F Machining Center, Unit H Flooring Tech Out of Compliance All three improperly storing chemicals changing oils (see 3/3/04 ltr) - 10/22/04 - Unit A - E in Compliance Unit F Improper storage of oils/2ndary, no Em Resp Plan/tnng/spill Kits and Unit H Improper chem storage/2ndary, no Em Resp plan/tnng/spill kits, No Chem Supplier Notif. 9/9/05 - Unit F - Out of Compliance - Some improper chem storage/secondary insufficient, Out of use equipment to be drained of oils or stored w/in 2ndary, Southeast corner of operations area needs permanent secondary (currently has movable diking), No Chemical supplier Notification, No Emergency Response plan or employee training, no WHP signs over sinks drains, Unit H - In Compl. (Empty)	Week of 3/13/06

Date Inspected	TQP Project #	City Project #	Project Name	Address	Site Contact	Wellfield	Facility Use	Findings	DMD Inspector	DMD Enforcement/Compliance	Re-Inspection Date
	04004	04-2901	Ward Trucking	1743.49 MLK		Riverside W-1	Truck Storage			Initial Inspection - yellow card received 12/6/05.	3/13/06
02/28/06	04007	04-050202	Southern Dunes Self Storage	7425 Wellingshire Blvd		Perry W-1	Self-Storage			2/28/06 In Compliance	NA
02/28/06	04016	04-083001	Good Dog Hotel & Spa	5345 N. Winthrop		Fall Creek W-5	Dog Spa			2/28/06 In Compliance	NA
02/28/06	04018	04-090201	US Post Office	2650 MLK St		Riverside W-5	Post Office			2/28/06 In Compliance	NA
01/31/06	04022	04-091601	Mainscapes Storage Bldg	4150 N Keystone Ave		Fall Creek W-1	Maintenance	01/31/06 Out of compliance. No notification of change from a storage bldg and Crew Meeting Location to a maintenance garage. No secondary containment for chemical or Parts Washer. No Chemical Supplier or Hauler notification. No floor coating. No training.		01/31/06 Out of Compliance. In process of modifying use to a maintenance facility.	4/5/2006
02/28/06	04028		Kirby Risk Supply	1348 W. 16th St.		Riverside	W-1			2/28/06 In Compliance	NA
	98002	98-082601	Builders Concrete	5540 S. Belmont Ave		Perry	Concrete Batch Plant	5/5/04 Out of Compliance. No secondary containment for chemical or Parts Washer. No Chemical Supplier or Hauler notification. 5/17/04 In Compliance. 1/31/05 (MCHD) Out of Compliance - Awaiting applicant plans to revise fueling procedures.		2/28/04 - Diesel Fuel spill at site reported to IDEM&MCHD 2/23/04. Approx. 300 gals spilled during fueling of Concrete trucks (on site fueling not allowed) TQP not notified until 1/05. MCHD reinspection 1/31/05 on TQP matter and realized Fueling wasn't allowed on-site (facility Out of Compliance). OES/TQP was notified of spill or cleanup activities. Facility requires modification to TQP conditions to allow fueling. 6/05 - Facility evaluating fuel delivery and AST installation.	April 06
	95-HSE-7	96-022805	US Towel (Lumberman's)	4024 Millersville Rd		Fall Creek W-1	Dry Cleaners/Laundry	4/10/96 - Out of Compliance Piping out side Secondary containment. Floor Sealant not in Secondary containment. Floor drains in Secondary not sealed. 5/23/96 - Out of Compliance. Must improve housekeeping, soil to drain water away from well.		1/9/06 - VRP Site per IDEM	
01/31/06	05003	05-041501	Auto Zone Auto Parts	5455 N Keystone Ave		Fall Creek W-5	Auto parts store	01/31/06 Out of compliance. No Em Resp/tmg/spill kits avail or documented. Spent batteries not stored in sufficient 2ndry. No floor coating. No Em Response Plan/Empl. No Chemical Supplier or Hauler notification. No floor coating. No training paperwork.		01/31/06 Out of compliance. No Em Resp/tmg/spill kits avail or documented. Spent batteries not stored in sufficient 2ndry. No floor coating. No Em Response Plan/Empl. No Chemical Supplier or Hauler notification. No floor coating. No training paperwork.	1/31/2006
	05021	05-082301	Lowe's - Emergency Generator	975 Beachway Dr.		Speedway W-5	Retail Store			Initial Inspection - yellow card received 12/6/05.	3/13/06

TQP Project #	City Project Number	Project Name	Address	Contact (s)	Phone #	Wellfield	Time of Travel	Date Received	Cert of Completion	Facility/Addition Type	On-Going & Training Requirements
05001	05-031501	IPS Elementary School #83	1183 N. Belmont Ave.		226-4466	Riverside	W-5	2/9/2005	Exempt	New School	Notification of Change in Process/tenant
05002	05-051001	Quality Supply & Tool	5722 S. Harding St.	Kevin Annee owner - Bob Gassert eng.	786-0042/373-8441	Perry	W-5	2/28/2005		Addn to existing Commercial Bldg	Water tight dumpster on hard surface, No on-site equipment maintenance, Signed Tenant Notification Form, Loading Dock to be used for Non-Chems/waste
05003	05-041501	Auto Zone Auto Parts	5455 N Keystone Ave	David Bentley-Leaser/Tanya Groce - Agent	800-285-2223 AutoZone	Fall Creek	W-5	4/5/2005		New Retail Space	Chem/Waste Notif records, Emergency Response Plan/Employee Training & Spill Kits, Spill Disposal Records kept, Secondary containment of Waste Oil AST and Old Battery Storage Transfer on Concrete, Waste Transporter to use Secondary, Concrete sealant and AST with transfer Equipment, Floor sealant inspection records, Stormwater retention pond required, Water tight dumpster, WHPA Signs at Sinks
05004	05-050302	Brook Park Elementary - after hours care	5259 Davis Street	Nancy Long Geupel Demars / Ed Williams MSDLT	546-4921 MSDLT	Richardt	W-5	04/06/05	Exempt	Detached After-hours Classrooms	Notification of Change in Process/tenant
05005	05-051302	Martin Marietta Materials	Belmont Ave	Max Williams - MMM	573-4460	Perry	W-5	4/18/2004	Exempt	Booster pump/AST	Chem/Waste Notification records, Emergency Response Plan & Spill Kit, Employee Training Records, Spill & Impacted Rain water Disposal Records Kept, Fuel Transfer on Concrete, Fuel Transporter to use Secondary, Concrete Sealant Inspection Records.
05006	05-050301	Capitol Charter School	2540 N. Capitol Ave.	Charles Marshall - Schneider	826-7153	Riverside	W-5	4/21/2005	Exempt	New School	Notification of Change in Process/tenant
05007	05-051301	Eagledale Plaza Canopy/Façade	2802 Lafayette Road	Larry Anderson - Miranda Construction Group	535-7307	Riverside	W-5	4/21/2005	Exempt	Replace Awning Façade due to fire	None
05008	05-060201	Worldwide Motors Addn	2314 N. Meridian St.	Larry Anderson - Miranda Construction Group	535-7307	Riverside	W-5	4/28/2005		Auto - metal repair shop addn	Vehicle Storage on hardsurfaces only, Floor sealant inspection documented, Secondary Containment for all automotive chemicals/products, Chemical Supplier Notification, Emergency Response Plan, Spill Kits, Employee Training/documentation, Post WHPA /No Dump Signs, Spill/Fluid Disposal Records Kept, Notify Veolia of any spills within 24 hrs, equipment stored outside to prevent rainwater contact, DMD notification of permits, Waste disposal records kept for review by TQP.

TQP Project #	City/Project Number	Project Name	Address	Contact (s)	Phone #	Wellfield	Time of Travel	Date Received	Cert of Completion	Facility/Addition Type	On-Going & Training Requirements
05009	05-051901	No Limit Exclusive Beauty Salon	2226 W. Michigan St.	James Sims - Owner	281-2395	Riverside	W-5	5/6/2005	Exempt	New Beauty Salon	Notification of Change in Process/tenant
05010	05-052401	Mud Creek Players Restroom Addn	9740 E 86th St	Mark Rowe - MD Rowe Const.	578-2737	Geist	W-5	5/11/2005	Exempt	Rest Room Addn	Notification of Change in Process/tenant
05011	05-060203	Marco's Restaurant Addn	2380 E 54th St	Mark Poulo - Owner	251-7000	Riverside	W-5	5/20/2005	Exempt	Restuarant Addn	Notification of Change in Process/tenant
05012	05-061501	Verizon Cell Tower Generator Addn	1702 Gent Ave	Darryl Herbertz	874-4260	Riverside	W-1	5/2/0/05		Add Emergency Gen and Diesel AST (changed to nat. gas 9/16/05)	Chemical/Waste Notification records, Emergency Response Plan/Spill Kit, Employee Training Records, Fuel Transfer on Concrete, Fuel Transporter to use Secondary containment & Double-walled hose. Per 9/16/05 letter - to remove diesel generator and replace with natural gas generator.
05013		DMT Retail & Gas Sration	2710-20 E 46th St.	Ken Simpson	841-3113	Fall Creek	W-1	5/26/2005		New Gas Station & Laundrymat	Deried Approval
05014	05-060202	Horizon Christian Fellowship	7702 Indian Lake Road	Mark Rowe - MD Rowe Const.	578-2737	Geist	W-1	6/1/2005	Exempt	Office/classroom Addition	Notification of Change in Process/tenant
05015	05-060204	Geist Christian Church Addn	8550 Mud Creek Rd.	Mark Rowe - MD Rowe Const.	578-2737	Geist	W-5	6/1/2005	Exempt	Addn to Church	Notification of Change in Process/tenant
05016	05-063002	Emmert Bldg	1702 W. Michigan St.	Colin Patterson	770-1801	Riverside	W-1	6/2/2005		New 2-Stry Retail Bldg	No Vehicle Maintenance, All future Tenants/Occupants sign WHP Agreement & owner agrees to maintain records of all current tenants and be in compliance with WHP Ordinance, Operations/Tenant change to DMD.
05017	05-063001	The Club - Elevator Addn.	4827 Carvel Ave.	GaryWoodruf	594-5904	Fall Creek	W-1	6/9/2005		Elevator Addn to Existing Bldg	Notification of Change in Process/tenant
05018	05-063003	Nextel Tower	4028 Wicker Rd.	Brian Schroeder	833-4533	Perry	W-5	6/13/2005	Exempt	Addnl Cell Tower to existing Fac.	None
05019	05-062201	New Beginnings Youth Center Addn	1709 E. 38th St.	Byron Alston	281-1151	Fall Creek	W-1	6/21/2005	Exempt	Room Addn to existing Church	None
05020	05-063001	Goodwill Industries Parking Lot	1635 W. Michigan St.	John Doty	244-1968	Riverside	W-1	6/23/2005	Exempt	Parking Lot Modification	None
05021	05-082301	Lowe's - Emergency Generator	975 Beachway Dr.			Speedway	W-5			Emergency Generator/AST	Chem/Waste Notif records, Emergency Response/Employee Training - records & Spill Kit, Fuel Transfer on Concrete, Fuel Transporter to use Secondary & Double-walled Hose
05022	05-080401	Abraham Lincoln School - Addn	5241 Brehob Rd			Perry	W-5		Exempt	Bldg Addn	NA

TQP Project #	City/Project Number	Project Name	Address	Contact (s)	Phone #	Wellfield	Time of Travel	Date Received	Cert of Completion	Facility/Additional Type	On-Going & Training Requirements
05023	05-081701	MSD Perry Tshp - Transportation Center Addn	1319 Edgewood Ave.			Perry	W-5	7/12/2005		Vehicle Maintenance Bldg Addn	Floor sealant inspection documents, Secondary storage of all Chems, Chem./petro supplier - waste hauler to sign Notification form, Emergency Response Plan/Employee Training/spill kit w/ rubber boots to cover all storm drains, Interior Chemical Transfer only, Equipment stored outside kept away from rain, Post WHPA sign at each fuel dispenser, No Dump Signs over sinks, Spill/Fluid Disposal Records maintain, keep vehicle storage on hardsurface, Change in operations forms to DMD, spill notification to Veolia, 8/24/05 ltr - Inspections/maintenance of storm water treatment system and retention pond - clean-out after spill event. See Comments- Storm Water treatment equipment requires quarterly inspections, document cleaning per manufacturing specifications, visual inspection of retention pond for sheen and cleaned as necessary
05024	05-081501	Capitol View	1402 & 1429 N. Capitol Ave			Riverside	W-5	7/14/2005		New Leased Medical Offices	Floor Sealant inspection documents, Secondary storage of all Chemicals/pharmaceuticals, Chemical treatment unit drainage in Secondary, Supplier Notifications, Emergency Response Plan/Employee Training - documentation & Spill Kit, Internal Chemical Transfer and Equipment Storage, Post WHPA/No Dump Signs, Spill/Fluid Disposal Records Kept.
05025	05-080801	Medical Clinic	1420 N. Senate Ave			Riverside	W-5	7/14/2005		Medical Bldg	Chemicals stored in cabinets and Secondary, All current/future Tenants/Occupants sign WHP Agreement & owner agrees to maintain records of all current tenants and be in compliance with WHP Ord., annual notification of tenants, Ops/Tenant change to DMD/OES, Emergency generator - Notification to fuel supplier/waste haulers, Fueling to occur on concrete and will utilize drip pan, Emergency Response Plan/Employee Training/Spill kits, document inspection of generators' hoses, Veolia Water notification of spills, Notify DMD of changes.
05026	05-092701	54th Place (Retail Only)	5425-35 Keystone Ave			Fall Creek	W-5	7/28/2005		Retail Shops	No storage of liq/solids above allowable limits, No vehicle maintenance, tenants post WHP signs, Future tenants to sign special requirement notice agreement, Owner to maintain special notice for all tenants. change in process/tenant to DMD.

TQP Project #	City Project Number	Project Name	Address	Contact (s)	Phone #	Wellfield	Time of Travel	Date Received	Cost of Completion	Facility/Addition Type	On-Going & Training Requirements
05026		54th Place Addendum (Harris Tire)	5425 N. Keystone Ave.			Fall Creek	W-5	7/28/2005		Unit 1 - Harris Tire Vehicle Maintenance	Chemical Supplier/waste hauler Notification Form signed, Fluid transfers on hard surfaces, WHPA notification to tenants, Future tenants to receive w/ lease special requirement agreement - site mgr to maintain documents on-site, owner/operator to notify DMD of process/tenant Change, No fluid replacement outside bldg, All ASTs and Oil/Water separator w/Secondary containment/alarms/overflow protection/emergency venting/interstitial monitoring, Floor Sealant Inspection monthly, Emergency Response Plan/Employee Training/Spill kits, Secondary containment for all chemical/petro products, Double-walled piping/floor drains/trenches/grates and piping pressure tested, No dumping signs above sinks, dispose of spill material appropriately and keep records, prevent rainwater from collecting on outside equipment, vehical storage and dumpster on hard surface.
05027	05091901	Kopelsky Whse Block D Lot A (ABC Supply)	1930 W. Edgewood Ave.	Tom Blankenship		Perry	W-5	8/25/2005		Leased Whse	Floor Sealant Inspection documents, Secondary storage of all Chems/wastes, Chemical supplier Notification, Emergency Response Plan/Employee Training/spill kits, No Dump Signs over sinks, Keep Spill/Fluid Disposal Records, no vehicle/equipment maintenance, Change in operations forms to DMD, spill notification to Veolia, Owner/operator agrees to notify tenants of W-5 WHPA and keep documentation, Owner/operator agrees to restrict use of facility to comply with WPZO, All tenants to receive and sign special requirements notice agreement for handling/storing chemicals of concern - owners/operator to maintain copies for all tenants, owner/operator to allow TQP audits at any time, Mobil Anti-freeze filtering unit must have secondary containment/transfers on hard surfaces w/ drip pan.
05028	05-100302	North Capitol Nursing & Rehabilitation Center	2010 N. Capitol Ave.			Riverside	W-5	8/18/2005		Medical Bldg	DMD Notification of Process change
05029	05-083001	Kipp Charter School	3125 Concord Court			Riverside	W-5	8/22/2005	Exempt	School	DMD Notification of Process change 11/4/05 Receive Notification of Change - will replace mobil w/ permanent structure
05030	05-083101	Cell Tower - Additional Pad	9205 Fall Creek Road			Fall Creek	W-1		Exempt	Addition to Existing Cell Tower	Notification of Change in Process/tenant

TOP Project #	City Project Number	Project Name	Address	Contact (s)	Phone #	Wellfield	Time of Travel	Date Received	Cost of Completion	Facility/Addition Type	On-Going & Training Requirements
05031		IU Cancer Hospital Addn	550 University			Riverside	W-1/5	8/14/2005		Cancer Wing Addition	11/4/05 Initial Requirements - 1/27/06 Ltr Addendum Requirements are as follows - , Secondary storage of all Chemicals, Chemical supplier notification, No Dump Signs over sinks, Spill/Fluid Disposal Records, no vehicle/equipment maintenance, All chemical handling and training will be deferred to Clarian SOP and accepted practices for spill kits and response/waste handling. Change in operations forms to DMD, spill notification to Veolia, Owner/operator agrees to notify tenants of W-5 WHPA and keep documentation, Owner/operator agrees to restrict use of facility to comply with WPZO.
05032	05-092302	Cell Tower - Additional Pad	2850 Barnes Ave			Riverside	W-5	8/25/2005	Exempt	Addition to Existing Cell Tower	Notification of Change in Process/tenant
05033	05-092901	Marickie Global Transport	2502 W. Epler Ave			Perry	W-5	9/18/2005	Exempt	Semi-Truck/Trailer Maintenance Fac.	Bldg not in W-5 - requested the following - Chemical Supplier/waste hauler Notification, WHPA notification to tenants, Future tenants to receive w/ lease special requirement agreement - site mgr to maintain list and documents on-site, owner/operator to notify DMD of process/tenant Change, No fluid replacement outside bldg, Emergency response plan/Employee training/Spill kits, Secondary containment for all chemical/pestro products, No dumping signs above sinks, dispose of spill material appropriate, prevent rainwater from collecting on outside equipment, vehicle storage and dumpster on hard surface.
05034	05-092301	Office Addition	4456 N. Keystone Ave			Fall Creek	W-1	8/25/2005	Exempt	Office Addn	
05035	05-100301	Pleasant Union Baptist Church Lot	1209 Eugene St.			Riverside	W-5	9/26/2005	Exempt	Parking Lot	Notification of Change in Process/tenant
05036	05-100701	Rally'sHamburgers	5405 N. Keystone Ave			Fall Creek	W-5	9/27/2005	Exempt	Restaurant	Post WHP signs, Special Requirement. Agreement signed by tenants and maintained by Owner, Change in operation or Tenant Notification, Owner to restrict use to comply w/ WPZO.
05037	05-100702	CMS Intl Cell Tower	1325 Sunday Dr			Perry	W-5		Exempt	Addition to Existing Cell Tower	Notification of Change in Process/tenant
05038	05-101401	Anna's House/Lord's Pantry Comm. Center	303 N. Elder Ave.			Riverside	W-5	10/10/2005	Exempt	Community Center	Notification of Change in Process/tenant
05039	05-101301	Lowe's - Canopy	975 Beachway Dr.			Speedway	W-1/5	10/10/2005	Exempt	Canopy	Notification of Change in Process/tenant
05040	05-101302	Hair Professionals	2955 N. Centennial Ave			Riverside	W-5	10/10/2005	Exempt	Office Addn	Notification of Change in Process/tenant
05041	05-101402	CMS Intl Cell Tower	2350 N. Lynhurst Ave			Speedway	W-5		Exempt	Addition to Existing Cell Tower	Notification of Change in Process/tenant

TOP Project #	City/Project Number	Project Name	Address	Contact (s)	Phone #	Wellfield	Time of Travel	Date Received	Cert of Completion	Facility/Addition Type	On-Going & Training Requirements
05042	05-101403	CMS Intl Cell Tower	286 N. Belmont Ave			Riverside	W-5	10/10/2005	Exempt	Addition to Existing Cell Tower	Notification of Change in Process/tenant
05043	05-101404	CMS Intl Cell Tower	2603 E. 56th St			Fall Creek	W-5	10/10/2005	Exempt	Addition to Existing Cell Tower	Notification of Change in Process/tenant
05044	05-102701	National City Parking Lot Addn	5300 Crawfordsville Rd			Speedway	W-5	10/17/2005	Exempt	Parking Lot	
05045		Rose & Walker Warehouse	5970 S. Belmont Ave			Perry	W-5	11/4/2005		Storage for Dry Wall	Product transfer to occur within concrete areas on the interior and exterior areas and continuously monitored during filling/removal activities. Chemical supplier Notif, Spill Plan/Employee Training/spill kits, Rubber boots/sealers to be used on nearby storm drains/floor trenches/drains in case of spills during refueling activities. Secondary storage of all chemicals and waste products, No Dump Signs over sinks, Spill/Fluid Disposal Records, no vehicle/equipment maintenance, equipment stored outside to prevent collection of rainwater, Retention/Detention ponds to prevent groundwater migration with approved liner, Trash dumpsters to be liquid-tight and stored on hard surface with no chemical disposal, Change in operations forms to OMD, spill notification to Veolia, Owner/operator agrees to notify tenants of W-5 WHPA and keep documentation, Owner/operator agrees to restrict use of facility to comply with WPZO, All tenants to receive and sign special requirements notice agreement for handling/storing chemicals of concern - owners/operator to maintain copies for all
05046		Murphey's Steakhouse Addn	4189 N. Keystone Ave			Fall Creek	W-1	11/11/2005	Exempt	Restaurant Addn	Notification of Change in Process/tenant, No storage of liquids or solids above amount allowed for cleaning/maintenance, No dumping signs above sinks, dumpster on hard surface and no chemical disposal in dumpster.
05047		Gershon CME Church	1636 E. 46th St			Fall Creek	W-1	12/9/2005	Exempt	New Church	Notification of Change in Process/tenant
05048		Indpls Sports Park	6701 S. Harding St.			Perry	W-1	11/29/2005	Exempt	Batting Cages	Notification of Change in Process/tenant

**Agenda
Indianapolis Water Wellfield Update
March 1, 2006**

**Time/Location: 1:00pm/Conf. Room K, IDEM (Shadeland offices)
Attendees: IDEM, City of Indianapolis, Viola Water, interested parties**

- 1) Introductions (Jim Sullivan).
 - 2) Discussion of activities within wellfields (Jim Sullivan/Dawn Groves/Group)
 - a) Riverside
 - b) Fall Creek
 - c) South Wellfield
 - 3) Coordination of new information when available. (Group)
 - 4) Open Discussion (Group)
- Adjourn....

**IDEM/Indianapolis Water Quarterly Wellfield Update
March 1, 2006**

Riverside Wellfield:

Do All Company facility

1850 W 16th Street in Indianapolis.

State Cleanup # 2004-09-0214, Anne DaVega, project manager

This site appears to be within a 3,000 foot radius / 1yr TOT for an Indianapolis wellfield.

The site is a medium priority with residual petroleum contamination from former heating oil USTs. The USTs were pulled and ~ 230 tons of affected soil were removed and properly disposed. High TPH-DRO was noted in soil; soil and groundwater both also have elevated cPAHs. Groundwater cPAH concentrations exceed RISC residential and/or industrial default closure levels.

The extent of delineation is not defined. IDEM issued a request for further investigation as recently as February 2, 2006. Groundwater has only been screened through push probes at this time; no monitoring wells have been installed. Borings on site have encountered groundwater between 17 and 18 feet bgs. IDEM has requested well installation in the February correspondence. The groundwater contamination may extend off-site.

Component Machines site

Gent Ave. between 16th and 17th St. in Indianapolis.

State Cleanup #2004-12-100, Gerald O'Callaghan, project manager

Is in the Riverside well field adjacent to (across the street from) Riverside Well A.

The consultant has removed the source area, (250 tons of soil with a tank) and has installed an SVE system and an air sparge unit. Both systems should now be online. There is a good possibility that the warehouse to the north of 17th street is also a source, and IDEM should be getting sampling results from this site soon. The TCE plume appears to be stable, but not enough data has been collected to state with any certainty. Contact Jerry O'Callahan for more information.

Stewart Manufacturing (Riverside Wellfield)

1280 North Senate Avenue, Indianapolis

VRP# 6040306; Bill Wieringa, project manager

Stewart Manufacturing entered the VRP to address VOC impacts to soil and groundwater. The site has been occupied since the early 1940's. Construction on the former Stewart Manufacturing facility began around 1987 and finished in 1988. The facility manufactured ventilation systems and vents. During these activities chemicals

have been detected. Constituents of concern are associated with the dry cleaning operation. This project is new to the VRP and no data has been submitted.

Capitol Supplies (Riverside Wellfield)

2020 N. Illinois Street, Indianapolis

VRP site #6010401, Mike Habeck, project manager

The site had four USTs (gas, diesel, and motor oil) that were pulled in 2001. Four quarters of groundwater data have been submitted. BTEX compounds were non-detect at 1-5 ppb; the highest observed hit was 28 MTBE ppb in a rinsate blank. However, MTBE was not present in the well samples. Two PAHs were detected during the second quarter – 15 ppb benzo(b)fluoranthene and 11 ppb benzo(a)pyrene. Neither was detected in the first quarter or subsequent quarters.

Rumpke Montcalm Street Property (Riverside Wellfield)

2069 and 2101-2235 Montcalm Street, Indianapolis

VRP #: 6030103, Aaron Green, project manager

This Site is located within the one year time-of-travel for the Riverside Wellhead Protection Area. The Site is approximately 14 acres and is currently operated as a material recycling and solid-waste transfer station. The Site has had varied industrial/commercial activities that include: gravel operations, various metal fabricators, garden tractor manufacturing, paper box company, carburetor parts and brake companies, and fleet fueling activities.

The VRP has limited information regarding site conditions. There have only been randomly placed borings throughout the Site, none of which appear to have been placed within suspected source areas. Based upon this limited information, it is known that various VOC, SVOC, and metals (acetone, TCE and daughter products, benzo(a)pyrene, arsenic, lead, chromium, mercury, selenium, barium) have been detected within the Site's soil and groundwater. There have been no offsite investigations. The only known dissolved contaminants exceeding RISC default residential cleanup values are arsenic and lead detected at 0.014mg/l and 0.053mg/l respectively.

The VRP is awaiting Rumpke's submittal of either an investigation report or remediation workplan. VRP will require that the cleanup criteria for this Site be either be RISC default residential or a non-default approach that takes into consideration the Site's proximity to the Riverside wellfield.

This property entered into the VRP to address chlorinated solvent contamination that resulted from U.S. Towel's occupation. This Site is located within the one year time-of-travel of the Fall Creek Well Field. It does not appear that this Site is contributing to the chlorinated contamination observed at the well field. The dissolved contamination at this site (maximum 300 ppb) appears to be limited to the uppermost aquifer which is separated from the lower aquifers by an 18-foot thick confining layer of glacial till. Based on the concentrations observed, the presence of DNAPL appears unlikely. Groundwater samples were collected from the lower aquifer via a temporary boring, a permanent monitoring well, and an onsite production well (now closed). These groundwater samples revealed no detections of VOCs.

Soil vapor extraction (SVE) is the remedy proposed to address absorbed contaminants in soils, followed by in-situ chemical oxidation to address dissolved contaminants. The proposed cleanup criteria are RISC residential default criteria.

The Remediation Work Plan for this site recently underwent public notice (January 9th – February 8th, 2006). During the public notice period the City of Indianapolis submitted a number of comments. Their comments/concerns are focused on the proposed use of in-situ chemical oxidation. In a letter dated February 15th, 2006, the VRP requested that Lumbermen's provide responses. These responses will be returned to the VRP to review and disseminate to the City. Although the work plan has not been formally approved, IDEM has provided approval to install and start the SVE system.

Southside Wellfield:

Rockville TBD

6450 S. Belmont Avenue, Indianapolis (South Wellfield)

VRP #6980301, Ruth Williams, project manager

This closed facility is a former machine shop that used degreasers in its operation. TCE and its breakdown products are the primary constituents of concern for this site. An investigation of the facility was not successful in finding a discrete source for the release, but VOC impacts are known to be migrating in groundwater westward from the facility. The maximum groundwater impact offsite from the facility was 280 ppb. Preliminary indications are that the plume is migrating in a southwesterly direction, and an investigation is currently ongoing to determine the nature and extent of the plume. In addition, a soil-gas and indoor air evaluation is ongoing to determine if vapor intrusion from the plume presents a risk to the Cedar Park residents. Six homes were tested to determine if vapor intrusion was a potential threat. TCE samples collected beneath the slab of all homes were within acceptable limits. Elevated TCE levels were originally found in two homes, but those results were suspect given that no vapor was detected beneath the homes. When the homes were resampled, the indoor air results came back within risk-based levels.

MEMORANDUM

TO: Sherrae Davis, Veolia Water

FROM: Zach Bishton, Christopher B. Burke Engineering, Ltd. (CBBEL)

CC: Sheila McKinley, CBBEL
Thomas Crouch, MCWEC Chair
Chris Barnett, MCWEC Vice Chairman

DATE: February 23, 2007

SUBJECT: MCWEC PSI Database and Veolia PSI Database Merge

Summary of Work

Christopher B. Burke Engineering Limited (CBBEL) has been providing annual and ongoing updates to the Marion County Wellfield Education Corporation's (MCWEC) Potential Source Inventory Database (PSI) for several years. These updates have been based on Windshield Assessments of Marion County's 7 Wellfield Protection Areas; site visits to newly identified potential sources of contamination operating in existing facilities; follow-up calls to facilities in the PSI database; and through periodic searches of Underground Storage Tank (UST), Leaking Underground Storage Tank (LUST), Hazardous Materials Notifiers (RCRA), Solid Waste Facilities, and Community Right to Know (CRTK) databases available through the Indiana Department of Environmental Management (IDEM). The most recent environmental searches were completed using January 2007 versions of the above listed databases.

It is CBBEL's understanding that Veolia Water representatives were also updating a previous version of the PSI database with Environmental Permit Information including but not limited to UST, LUST, Hazardous Waste Notifiers, Voluntary Remediation Program (VRP), State Cleanup programs, and new facilities identified through the Technically Qualified Person (TQP) Review.

This simultaneous updating process has resulted in differences between the MCWEC PSI database and the Veolia PSI database. In order to simplify the merging of these databases CBBEL and Veolia representatives have been working together to merge the two databases. The following steps were taking.

1. Site Numbers for each facility on both PSI databases were compared. Where there were duplicate site numbers between the two databases, the Veolia PSI database was used as the default data source. The Veolia PSI database was chosen as the default for this, because it also included TQP facilities which were not included in the MCWEC PSI database. The MCWEC PSI database also had additional facilities identified through ongoing windshield assessments, however the number of TQP facilities were far greater than the number of new facilities identified through the windshield assessment process. Additional facilities identified through windshield assessments included in the MCWEC PSI database were copied and added to the Veolia PSI database.
2. Fields from the MCWEC PSI database were copied and pasted into the Veolia PSI database. Many of the fields identified in both databases had identical names. In order to distinguish the fields, all fields pasted into the Veolia PSI database from the MCWEC PSI database had "MCWEC" added to them to clearly identify that these

fields were pasted from the MCWEC PSI database. This was done to help prevent the loss of information and to reduce confusion in the update process. Fields copied from the MCWEC PSI database and pasted into the Veolia PSI database are listed below:

1. SITE OR FACILITY NAME (MCWEC)
 2. PRIOR NAME (MCWEC)
 3. PHONE (MCWEC)
 4. CONTACT NAME (MCWEC)
 5. SITE DESCRIPTION (MCWEC)
 6. BUSINESS CATEGORY (MCWEC)
 7. INFORMATION LEFT AT FACILITY (MCWEC)
 8. NON-DELIVERY JUSTIFICATION (MCWEC)
 9. ON-SITE DETAILED ASSESSMENT PERFORMED (MCWEC)
 10. TIME OF TRAVEL AREA (MCWEC)
 11. STATE/FED PERMITS (MCWEC)
 12. PERMIT NUMBER (MCWEC)
 13. RCRA CLASSIFICATION (MCWEC)
 14. OPERATING STATUS (MCWEC)
 15. CRTK (MCWEC)
 16. POTENTIAL CONTAMINANTS (MCWEC)
 17. NOTES (MCWEC)
 18. 2006 - 2007 CONTACT DATE (MCWEC)
3. Once the MCWEC PSI database information was copied into the Veolia PSI database a few discrepancies were identified related to environmental permit information. Specifically, the two databases were capturing different attribute information relating to environmental sites. For example, consider the UST information collected in the MCWEC PSI database. For each UST facility, the MCWEC PSI database was capturing the permit number and the operating status with the greatest possible relevance for a given site. While the Veolia PSI database, in most instances was capturing the permit number, number of tanks at each site, and the corresponding operating status for each tank. For the purpose of this update Veolia representatives recommended defaulting to the MCWEC PSI database style of updating. In order to prevent any confusion the following fields were requested to be and have been removed from the Veolia PSI database:
1. STATE/FEDERAL PERMITS
 2. PERMIT NUMBER
 3. RCRA CLASSIFICATION
 4. OPERATING STATUS
 5. UST/LUST STATUS
 6. ACTIVE HWG OR HMH

Other Clarifications

CBBEL made no changes to information contained within the following worksheets within the Veolia PSI database:

1. Instructions
2. Harbor
3. Richardt Street – Lawrence
4. All 3
5. All 4
6. Spill

In the Geist worksheet, "McGath's Marathon" was removed because it is located in the Richardt Street – Lawrence Wellfield.

The listing for Johnson County Co-op should be reviewed as it does not seem to belong in the Geist Wellfield PSI.

There appears to be some duplicative facility entries within the PSI database. These duplicative entries are primarily associated with TQP facilities. It appears that the original PSI database included some TQP facilities, but that these facilities were not clearly marked. As a result some TQP facilities are listed twice in the database.

Key to Permit Fields

Below is a key to assist with interpretation of permit information in the Veolia PSI database.

STATE/FEDERAL PERMITS	RCRA CLASSIFICATION	OPERATING STATUS	DEFINITION
UST		CIU	Currently In Use
		POS	Permanently Out of Service
		TOU	Temporarily Out of Use
		UNR	Unregulated Tank
		N/A	Not Applicable
LUST		ACT	Active
		DIS	Discontinued Site Remediation
		NFA	No Further Action Planned
		L	Low Priority
		M	Medium Priority
RCRA		H	High Priority
		0	Dead Mail
		1	Large Quantity Gen.
		2	Small Quantity Generator
		3	Conditionally Exempt Generator
		OB	Out of Business
		Non-Handler	Non Handler
		1	Active
		2	Dead mail
		3	Out of Business
		4	Non Handler

Additional Coordination and Clarification

For additional clarification on updates made to the merged database, please feel free to contact Zach Bishton at (317) 266-8000.

Jennifer Barnes

Method for updating Potential Source File

1. Retrieved UST/LUST files from the IDEM website
 - a. <http://www.in.gov/idem/programs/land/lust/datacover.html>
 - b. also retrieved some site information from IDEM associates
2. Converted into an excel spreadsheet and edited these sites by counties, by dates, and then by well-field.
 - a. If they were older than 2000, not included.
 - b. Rough location of addresses was determined by using MapQuest (www.mapquest.com) and then confirmed by using IWC MapGuide.
3. Added to the old Potential Source file. Created a color code to distinguish LUST/UST sites that have already existed but changed status and LUST/UST sites that were new post 2000.
4. Added/edited businesses for different aspects, such as, state clean-up, brownfields, vrp status, tqp status.
 - a. Received this additional information from IDEM and from WESTON
5. Used Environmental first search to add any missed addresses
 - a. Non-geocoded addresses not included.
6. Created a list of addresses from the non-geocoded data and the FINDS sites and faxed that list to MCHD.
7. MCHD retrieved the files of those sites and I went to the health department to see if these sites were relevant to the potential source file.
8. Recorded relevant sites and added to potential source file.
9. Used Veolia's address list to find Parcel ID's. Sent information to Charlene/

Notes:

KEY:

Changes	UST Status Change
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	New UST Sites
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Changes	UST Status Change
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	New UST Sites
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TQP KEY

APP	approved
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DEN	denied
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INC	in compliance
-----	---------------

OUC	out of compliance
-----	-------------------

EXE	exempt
-----	--------

EXC	excluded
-----	----------

UNR	unresolved
-----	------------

SIP	site investigation plan
-----	-------------------------

FSI	further site investigation
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Davis, Sherrae

From: Zach Bishton [zbishton@cbbel-in.com]
Sent: Tuesday, June 27, 2006 9:13 AM
To: Davis, Sherrae
Subject: RE: Test delivery of well disconnects

Sherrae- I did receive an email on Friday. Thanks

Zach

Zach Bishton
Resource Planner
Christopher B. Burke Engineering, Ltd.
Ph: 317.266.8000 Fax: 317.632.3306
www.cbbel-in.com zbishton@cbbel-in.com

From: Davis, Sherrae [mailto:sherrae.davis@veoliawaterna.com]
Sent: Monday, June 26, 2006 10:29 AM
To: Zach Bishton
Subject: FW: Test delivery of well disconnects

Zach,

Our IT is working on getting the turn off-turn off and site inspection report to run and deliver automatically to the recipients. Apparently they did a test on Friday—and I've been asked to verify with the

intended recipients if they received the email—please let me know if you got anything. Thanks

3/26/2007

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Davis, Sherrae

From: Davis, Sherrae
Sent: Friday, December 10, 2004 4:48 PM
To: Dicken, Paul J.; Hill, David-Indianapolis
Subject: RE: Wellfield Protection Plan Training

Thanks Paul/Dave.

-----Original Message-----

From: Dicken, Paul J.
Sent: Friday, December 10, 2004 4:42 PM
To: Elliott, Mike; Hulse, Bill; Bedgood, Karmyn; Bedgood, Tim; Hammer, Danny; Allen, Jim; Richardson, Darrell; Bowling, Kyle; Guthrie, Robert; Niece, Kevin; Hauk, Kevin; Scott, Gregg; Curtis, Bill; Sponsel, Douglas; Johann, David; Hawthorne, Derek; Shockley, Mark H.; McDonald, James; Graves, Stanley J.; Rothgerber, Steve; West, Darrel (Indianapolis)
Cc: Voltz, Chuck; Hill, David-Indianapolis; Willans, Alyson; Collins, Ed-IWC; Gadis, David; Davis, Sherrae; Kline, John D.; Avey, Charline M.; Malone, Ed; 'zbishton@cbbel-in.com'; Mosby-Williams, Carolyn
Subject: Wellfield Protection Plan Training

This training program will be presented by Burke Engineering. They are a firm that is representing the Marion County Wellfield Education Corporation (MCWEC). This training will be an information training on how we at VWI can assist in awareness of the Wellfield areas throughout are territories. The training will be held in the Conference Dining Room (except for the two 9:30 a.m. sessions held at White River) and will last approximately 30 minutes. They will briefly discuss the issues at hand for 10 minutes or so and the remaining 20 minutes will be to show slides/pictures of scenarios to be aware of. Listed below are the dates/times scheduled and the appropriate groups that are designated for that time. Feel free to attend any of the sessions, but we had to allot certain times for the union/field personnel.

Chuck: I listed your group as we discussed
 David H.: I listed Production as a whole instead of individual names.

Monday, December 20th @ 8 a.m.
 Meter Reading

Monday, December 20th @ 9:30 a.m. (White River)
 Production

Tuesday, December 21st @ 7:30 a.m.
 Field Service Maintenance/Restoration

Tuesday, December 21st @ 8:00 a.m.
 Field Service Inspections
 4-CP District PM's
 4-CP District Supervisors

Tuesday, December 21st @ 9:30 a.m. (White River)
 Production

Paul Dicken
 Director Field Services
 Operations Division
 Veolia Water, Indianapolis LLC
 Office: (317) 655-1741
 Cell: (317) 710-0097
 paul.dicken@veoliawaterna.com

CONFIDENTIALITY NOTE: This email message and any attachments to it are intended only for the named recipients and may contain legally privileged and/or confidential information. If you are not one of the intended recipients, please do not duplicate or forward this email message and immediately delete it from your computer.

Marion County Wellfield Education Corporation MCWEC

Observation and Awareness Training Presentation to Veolia Staff

December 2004
Christopher Burke / Mundell & Associates, Inc.

Presentation Overview

- Introduction - History/Mission MCWEC
- Purpose of Observations
- Visual Examples of Concern Areas
- Observation Card

Introduction

- Wellfield Protection Zoning Ordinance was developed to protect the city's drinking water thru administrative and educational means.
- Wellfields were established from data submitted to the city by the public water utilities in Marion County.

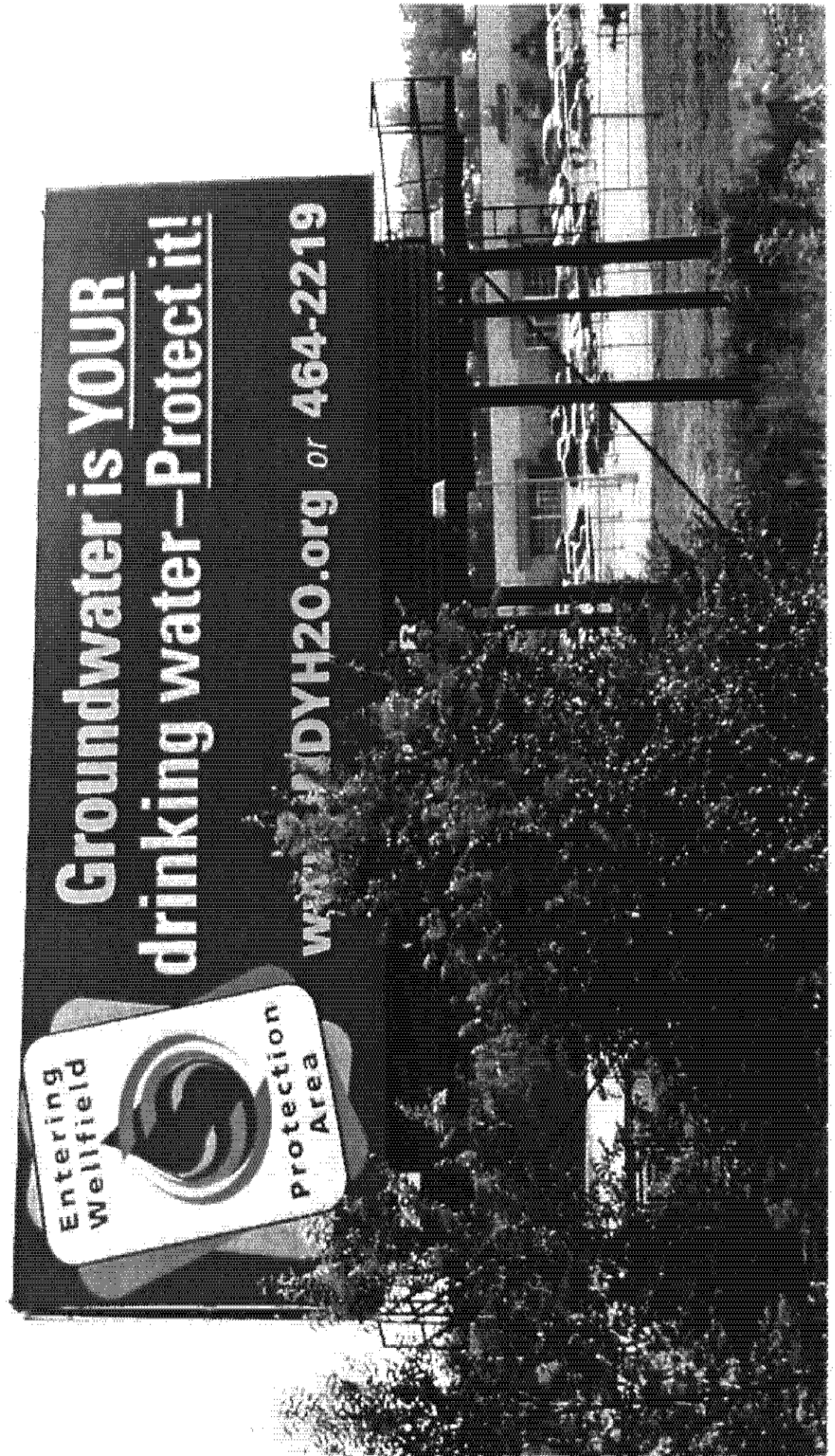
History of MCWEC

- Created in 1997 through City Ordinance

The mission of MCWEC is:

*To prevent contamination to the
groundwater resource of Marion County
through public awareness and education.*

Wellfield Protection Areas in Indianapolis



Wellfield Basics

- Wellfield Protection Zoning Maps recognize 7 wellfields in Marion County
- Each Wellfield is divided into 2 districts:
 - W-1 and W-5
 - W-1 District - an area where a “drop” of groundwater will reach a pumping well within one year.
 - W-5 District - an area where a “drop” groundwater will reach a pumping well within five years.

CITY & STATE

Toxin to cost Martinsville millions

Solvent taints aquifer in once-renowned spa town

By Bruce C. Smith and Tammy Webber

bruce.smith@indystar.com

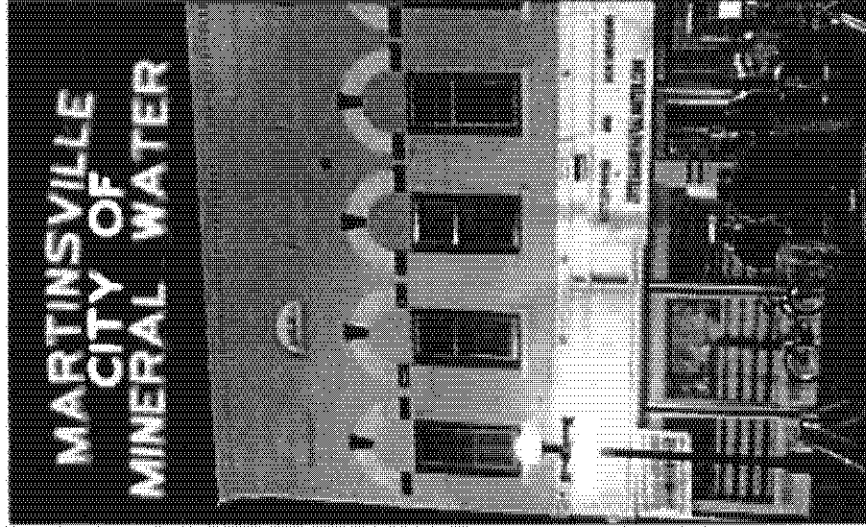
June 20, 2004

MARTINSVILLE, Ind. -- The vintage neon sign atop a historic downtown building is a reminder of this city's legacy "Martinsville, City of Mineral Water."

For more than a century, people flocked to local spas and sanitariums to soak up the water's reputed healing powers.

Now, the aquifer that supplies the city's drinking water is poisoned by a toxic chemical -- the legacy of an industrial dry cleaner that closed 13 years ago. The suspected cancer-causing solvent has soaked 400 feet into the ground and moved more than a mile to the city's wells.

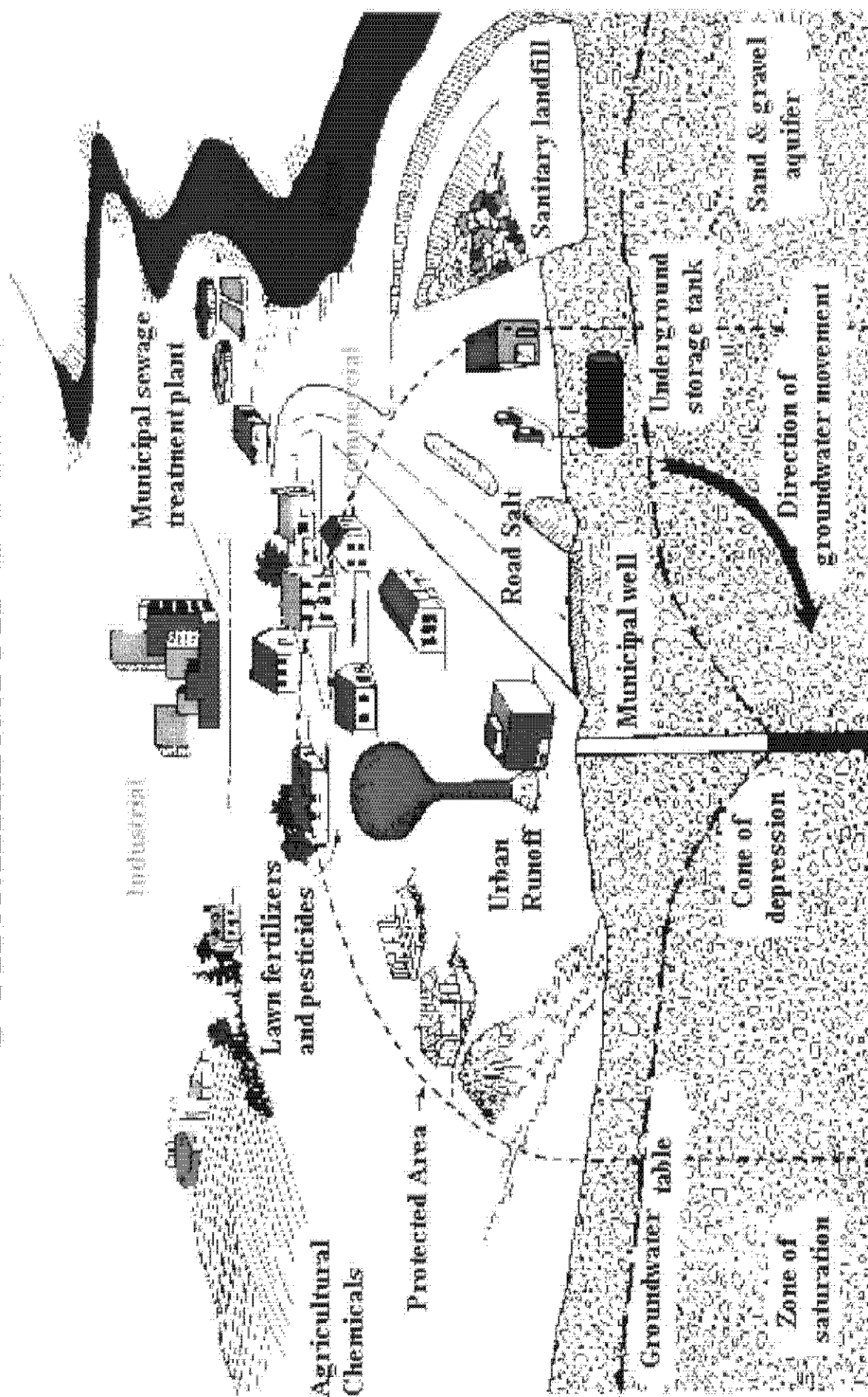
State and federal officials have known for years that the former Masterwear Corp. probably contaminated soil behind its plant with perchloroethylene, or PCE, a powerful solvent blamed for contaminating dry-cleaning sites throughout the United States.



A restored neon sign at 111 E. Morgan St. in Martinsville heralds to the city's past as an area known for spas and sanitariums. A dry cleaning solvent has polluted part of the city's aquifer, forcing the closure of one of three drinking water wells. Officials say the water

1 of 2

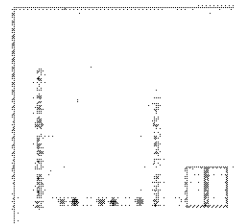
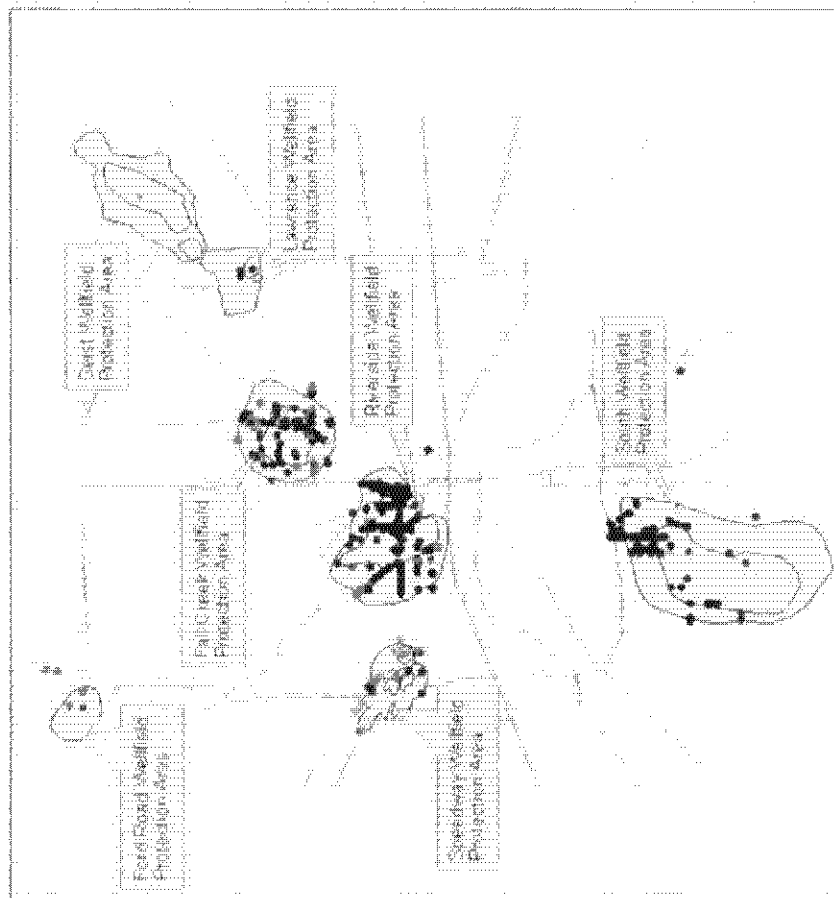
Contamination Sources



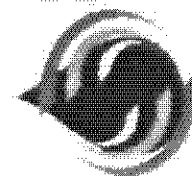
From Inventorying Contaminant Sources, Wisconsin DNR, 2000

Potential Sources of Contamination in Wellfield Protection Areas

An Initial Site Visit/Preliminary Assessment Screening was Completed at Each Location



**Marion County Wellfield
Education Corporation**



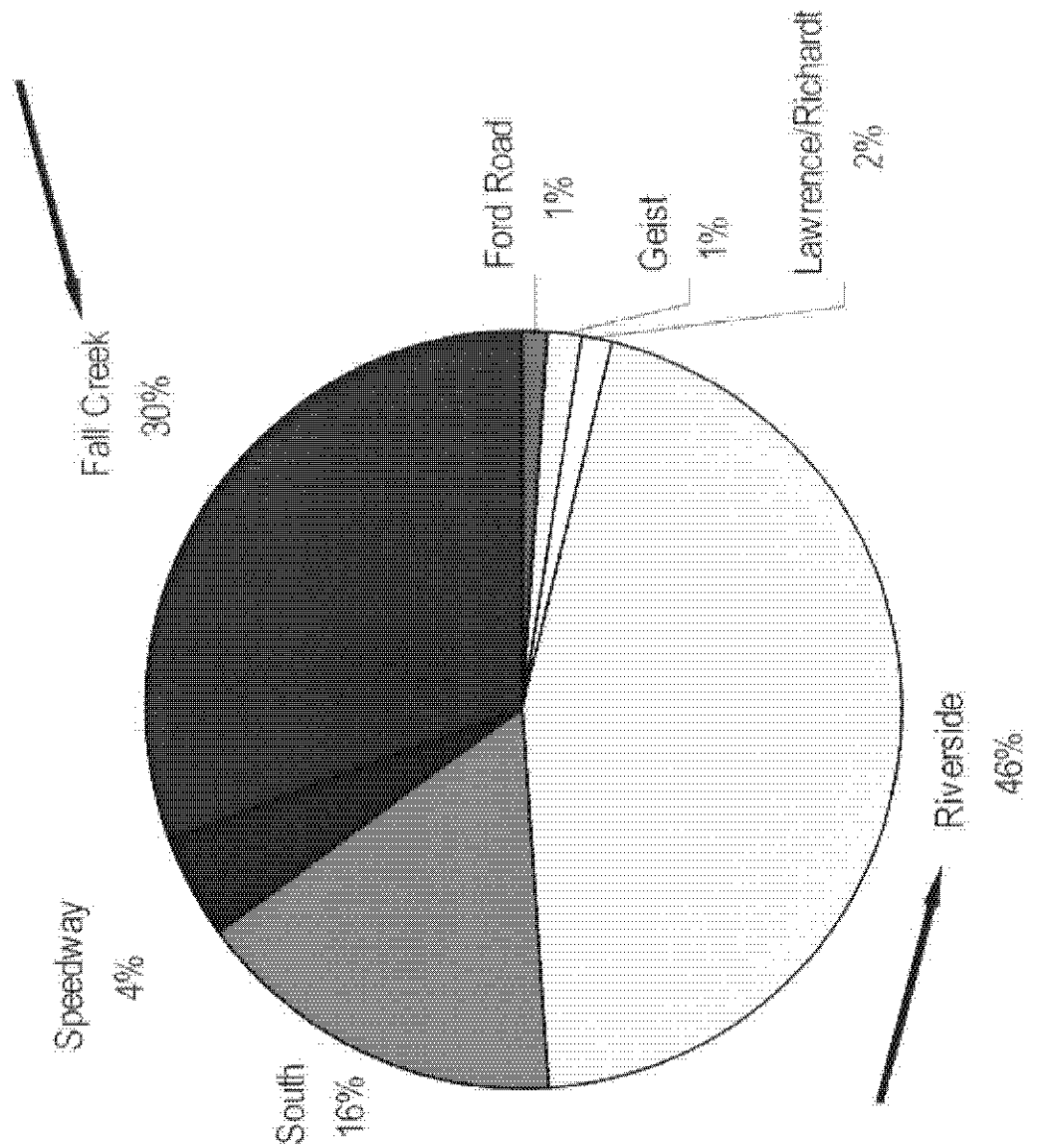
Map Prepared By:
Gordon & Associates, Inc.
Hunters & Associates, Inc.

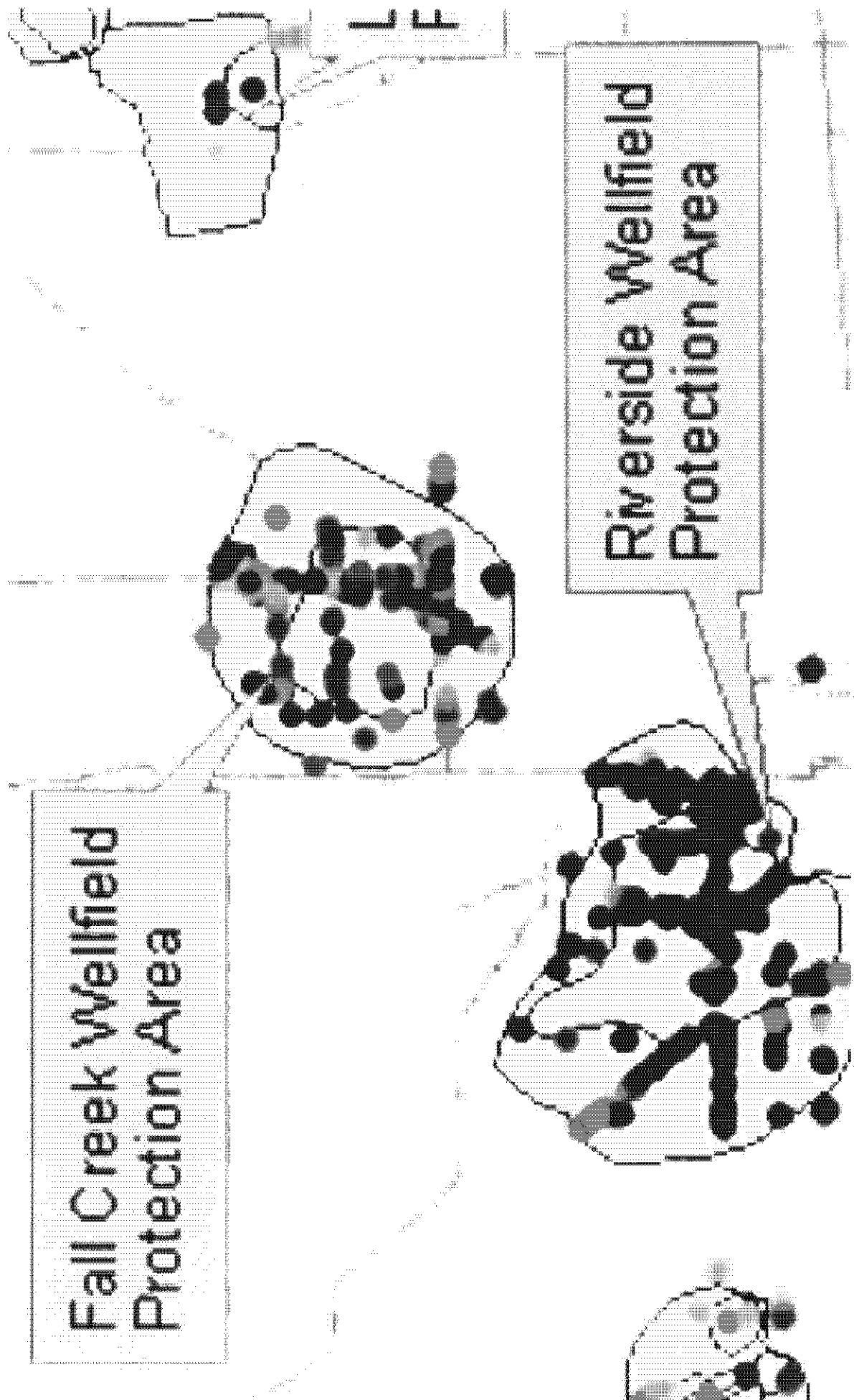


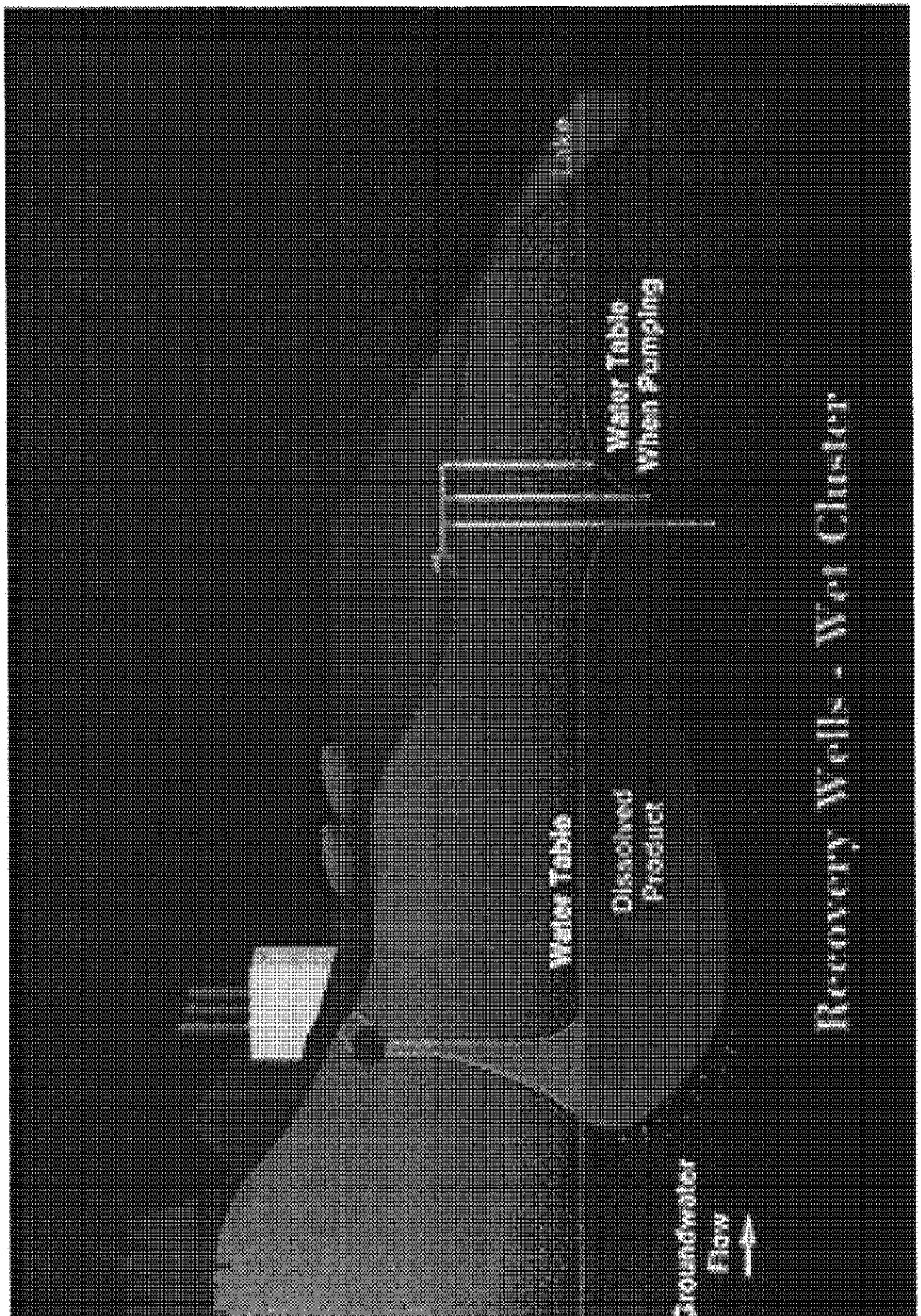
June 13, 2002

Percent of Facilities

Total Distribution by Wellfield



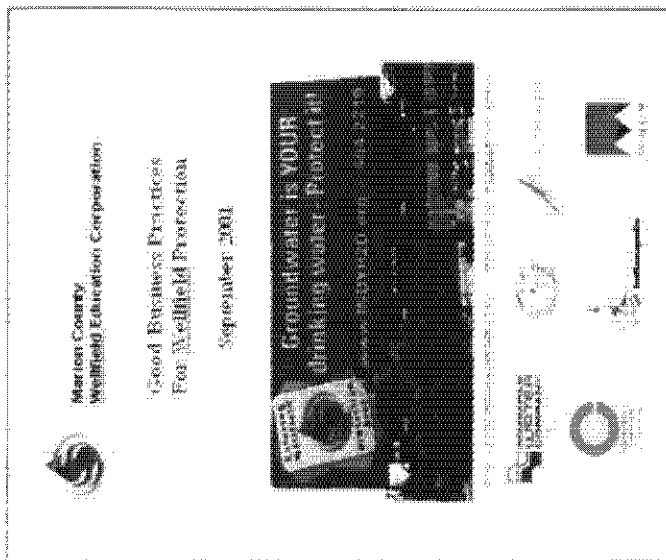
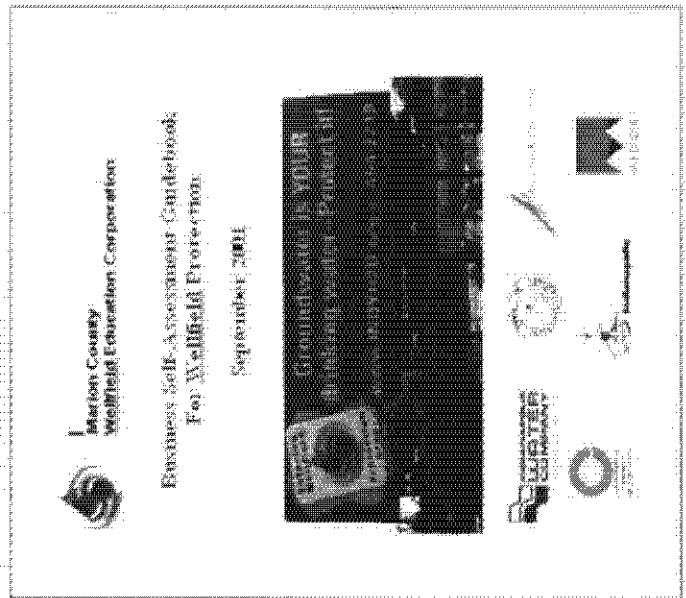
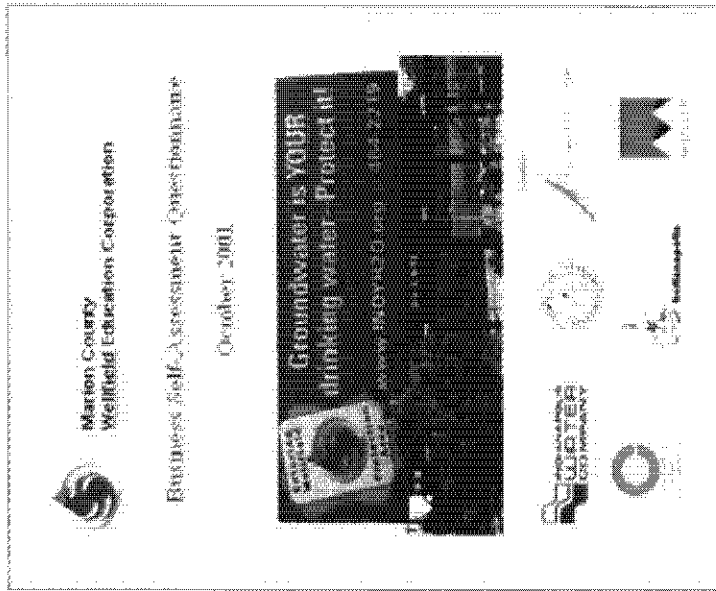




Recovery Wells - Well Cluster

Free Support for Businesses

- Facility Assessment – Is there a chemical release concern?
- Free technical advice to fix concerns.
- Free pollution prevention equipment – spill kits, containment pallets, drum holders, oil dry,
- Waste management help – contacts for waste haulers; layout changes.



Purpose of Observations

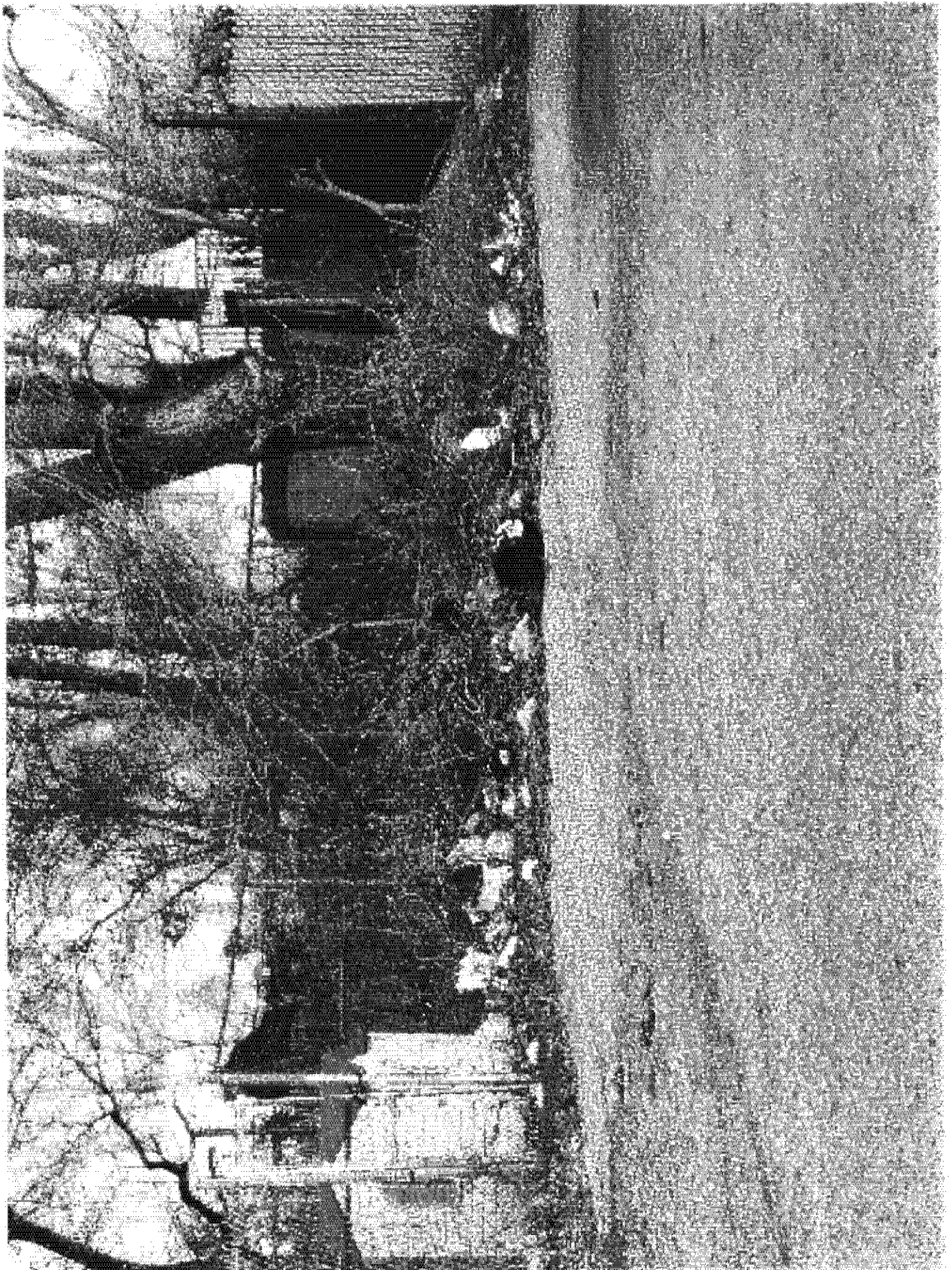
- To identify businesses that may appear to need help with handling their wastes to prevent groundwater contamination.
- Properties have 'visual' evidence of poor waste handling practices – storage and spillage of wastes and chemicals outside.
- Desire to contact to determine if they want free environmental help.
- No regulatory enforcement or 'big brother'.

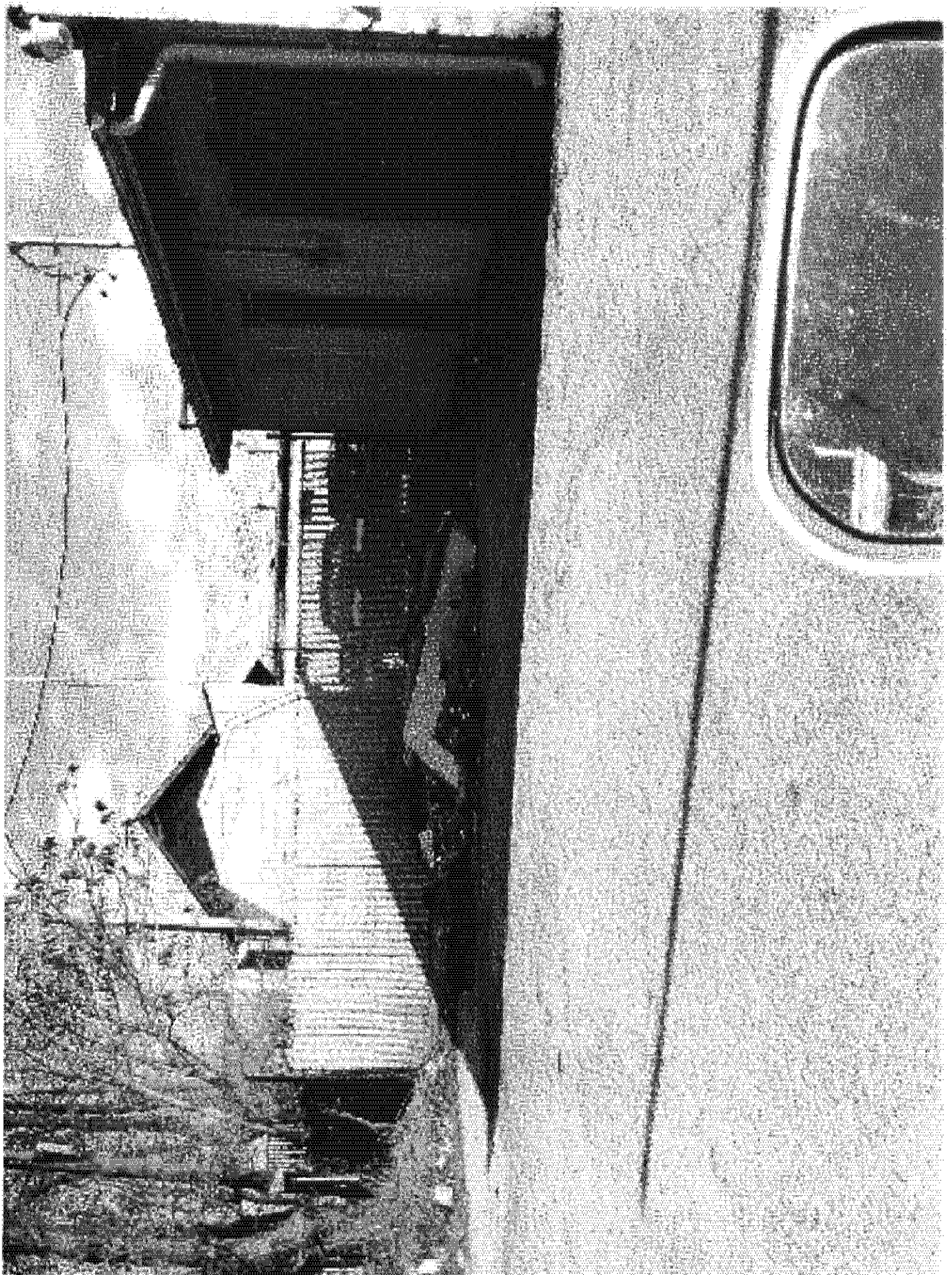
Types of Facilities

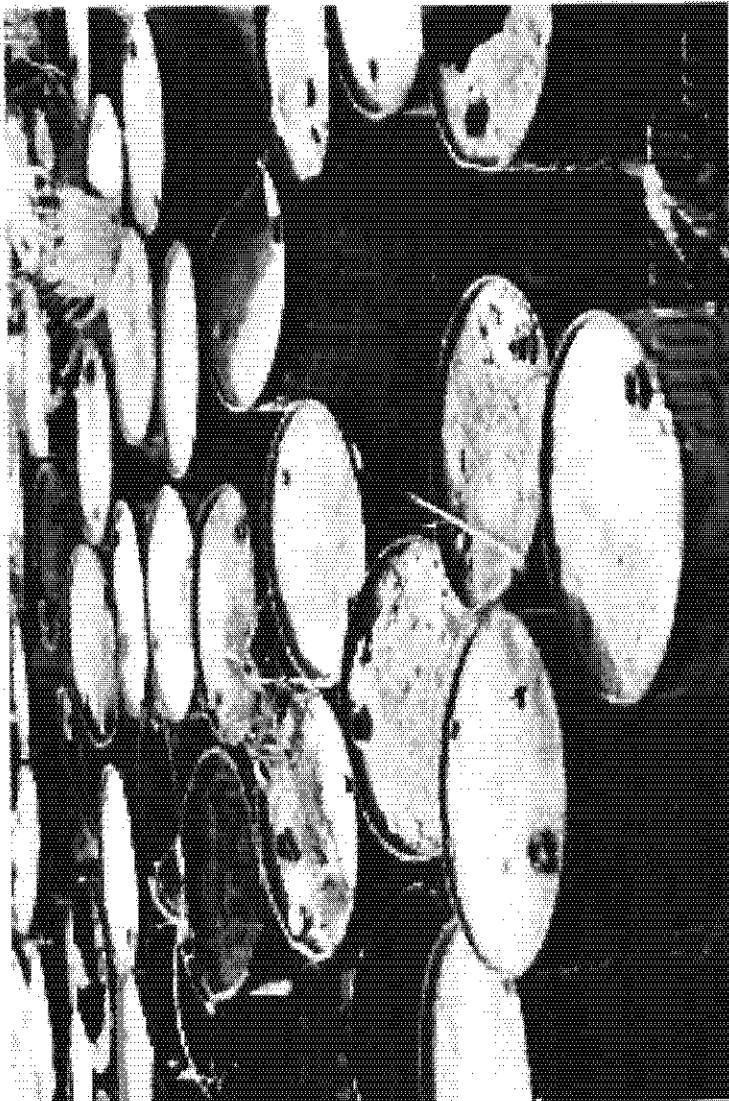
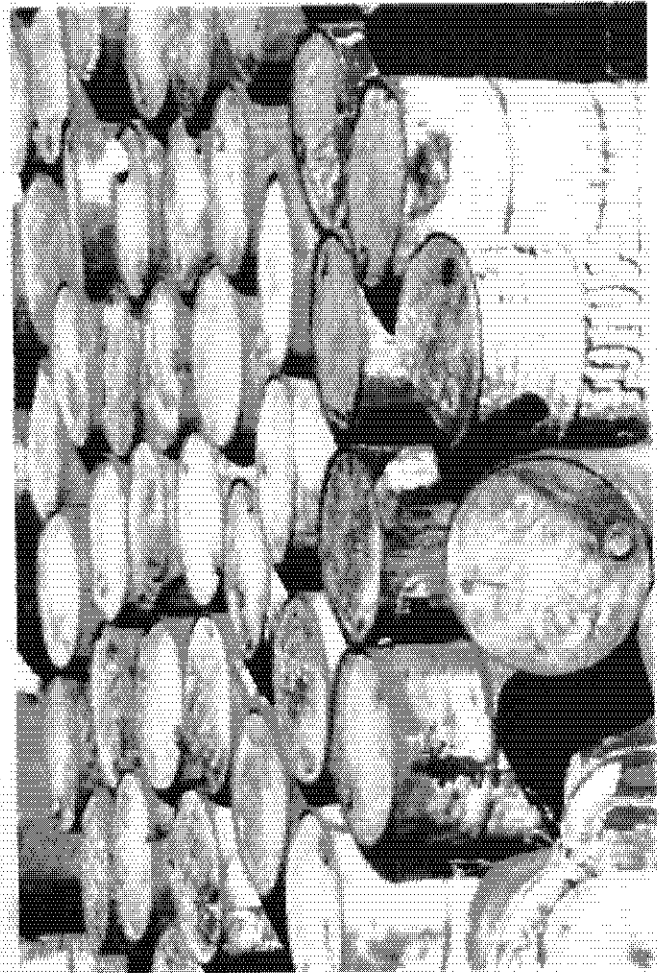
- Commercial/industrial facilities
- Maintenance and body shops; gas stations
- Dry cleaners
- Small metal working shops
- Small residential/commercial businesses
- Other small to medium businesses that use chemicals and generate wastes

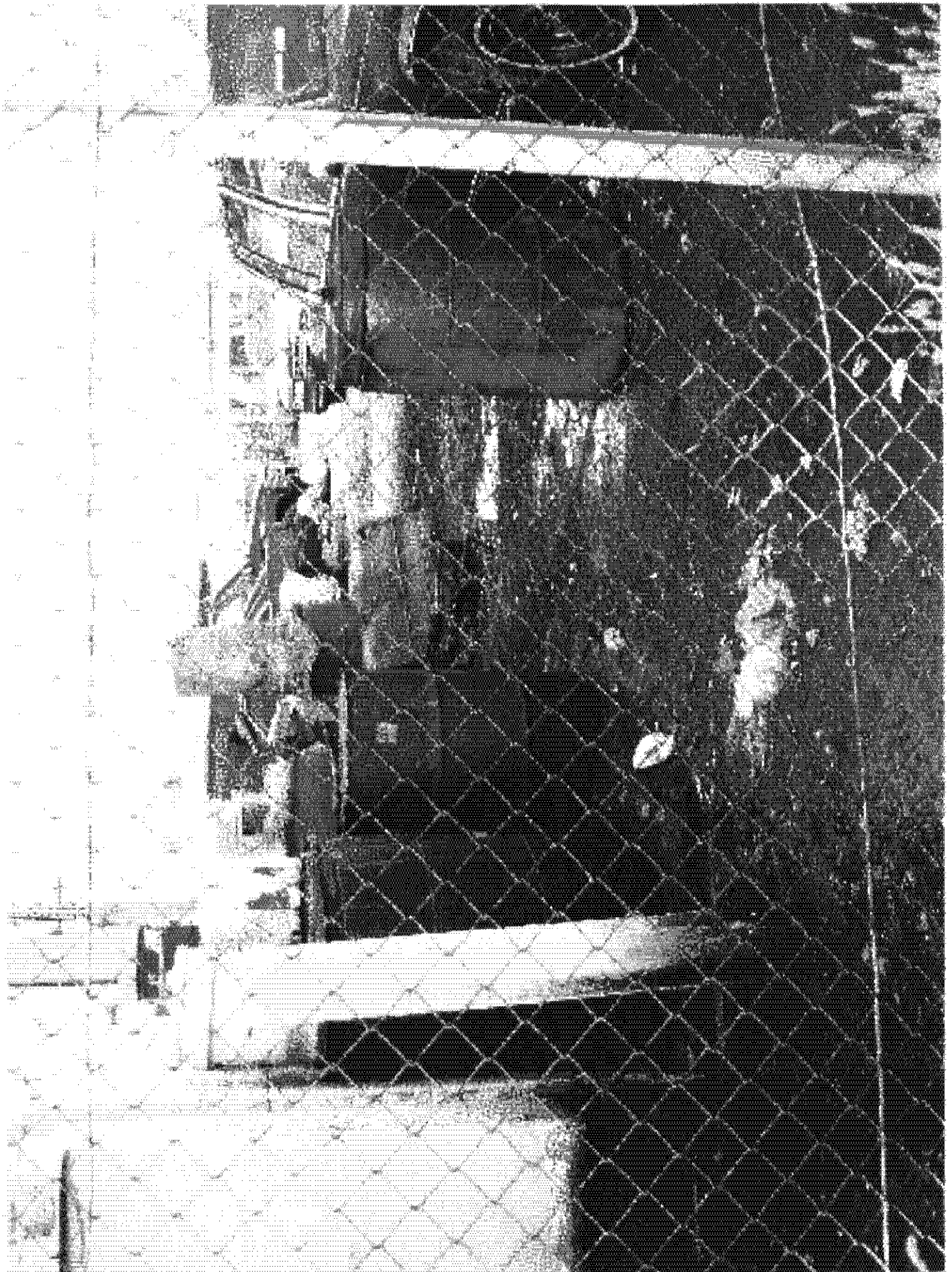
Visual Examples of Areas of Concern

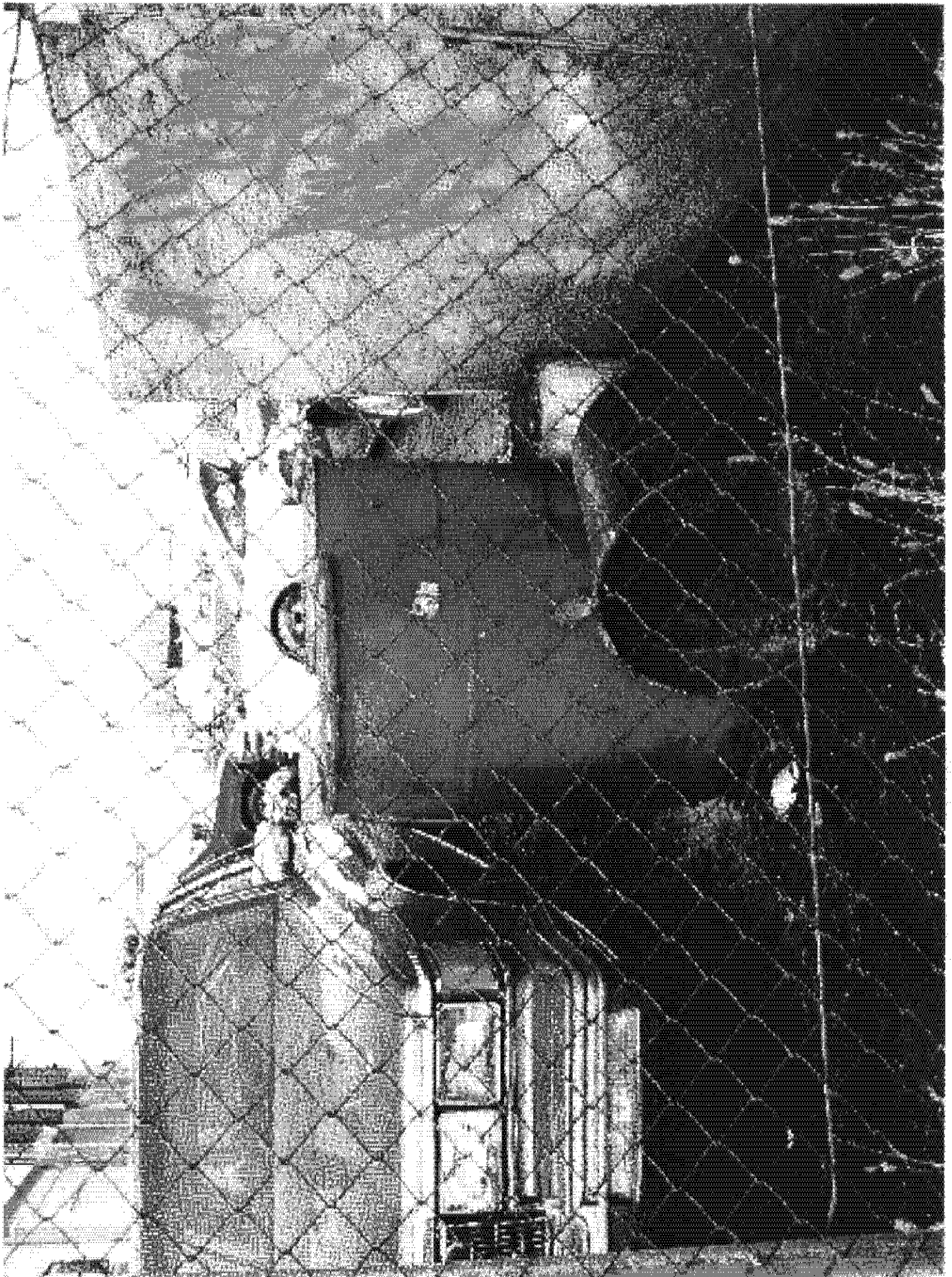
- Observations of waste storage outside of buildings.
- Drums, containers, tanks
- Evidence of spills: oils, liquids, colored staining on ground
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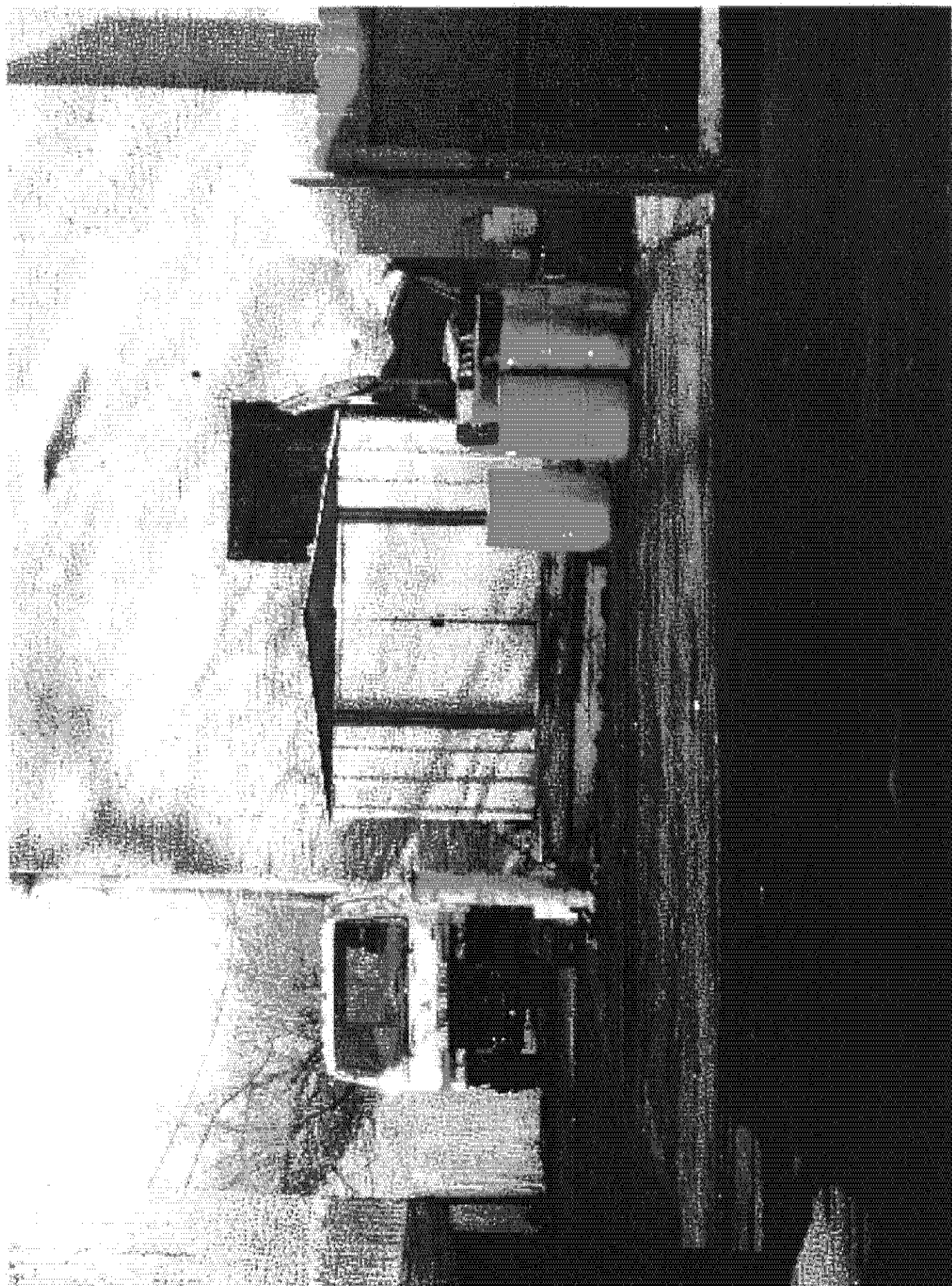


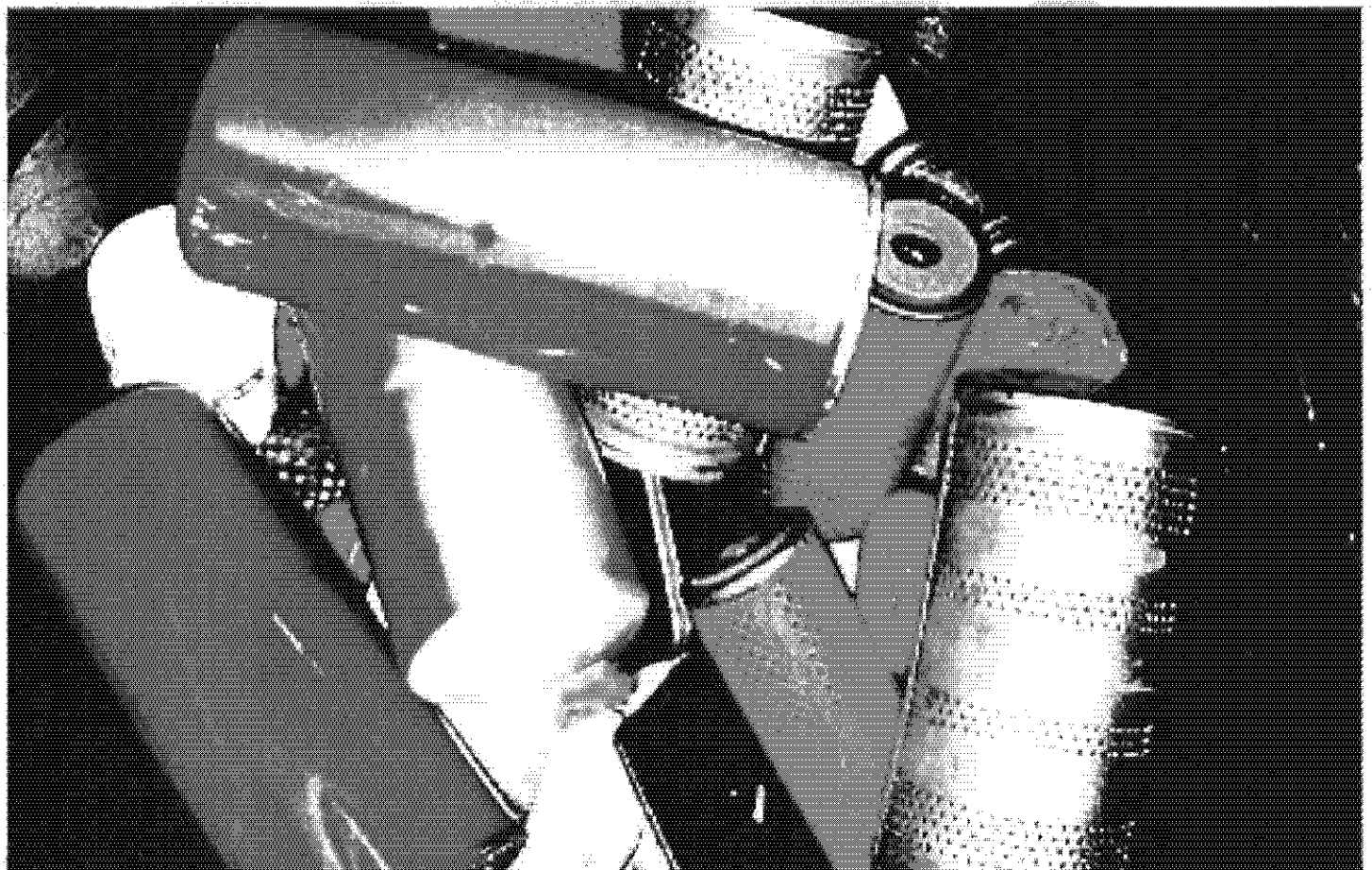
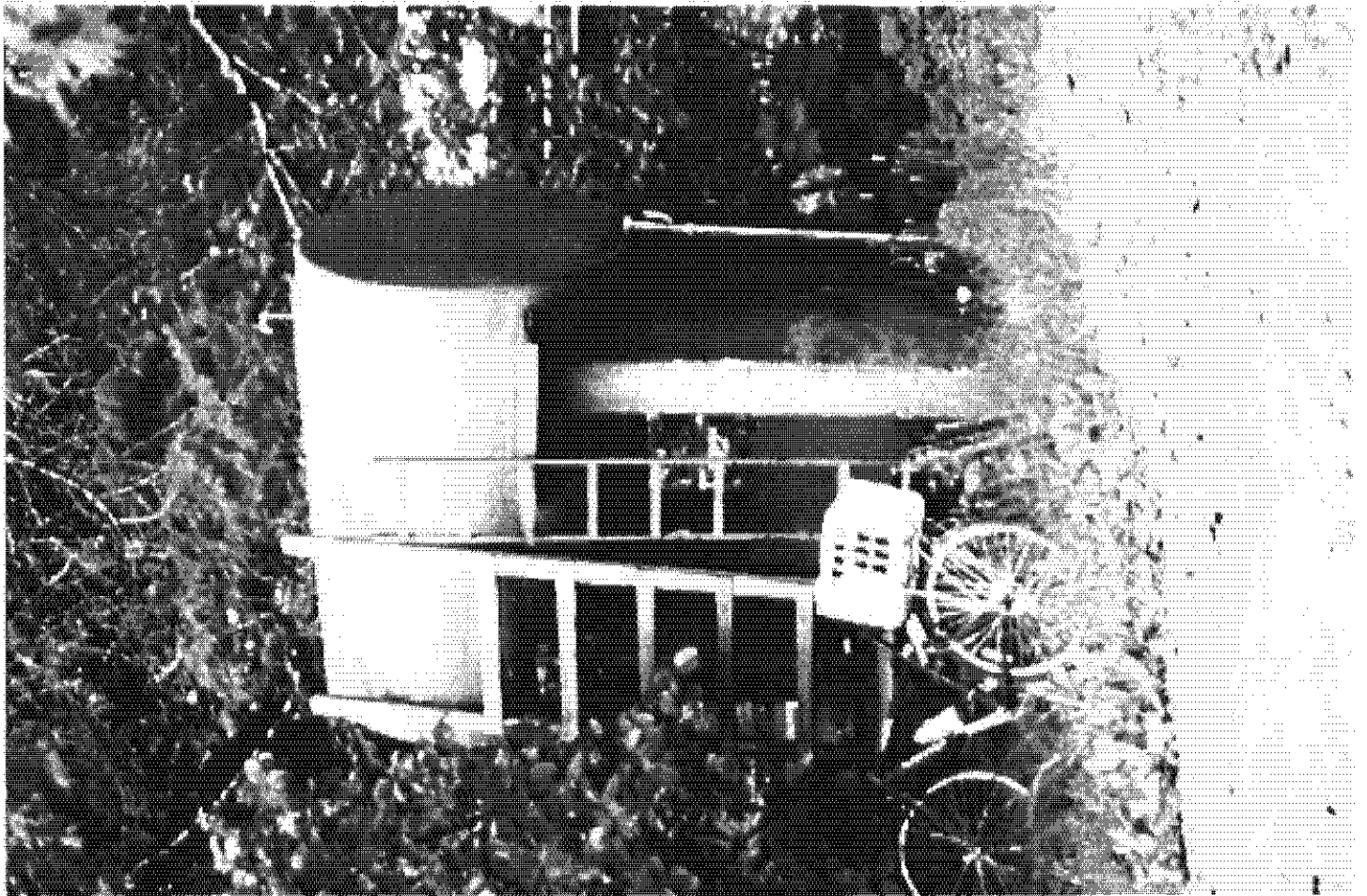


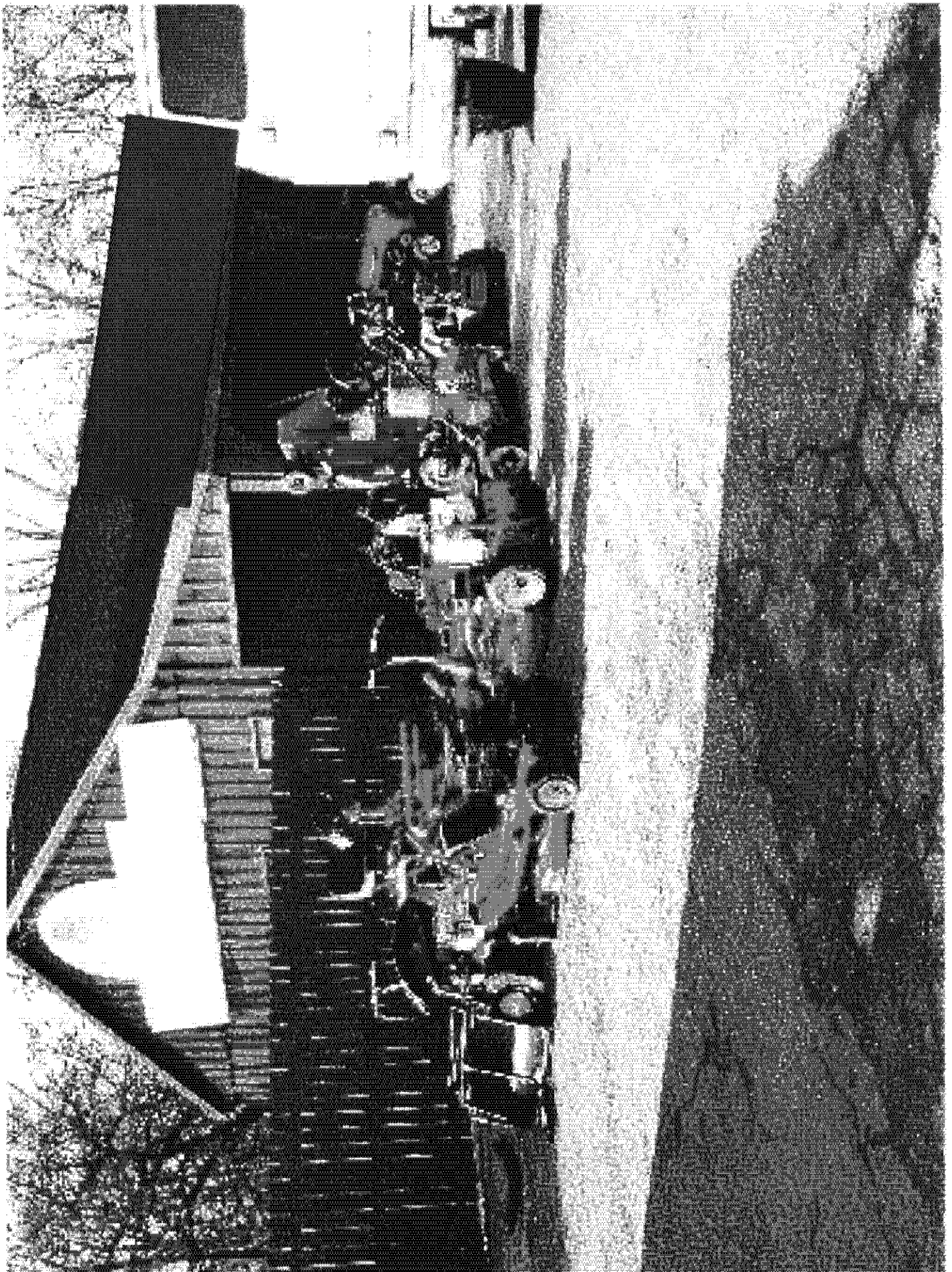


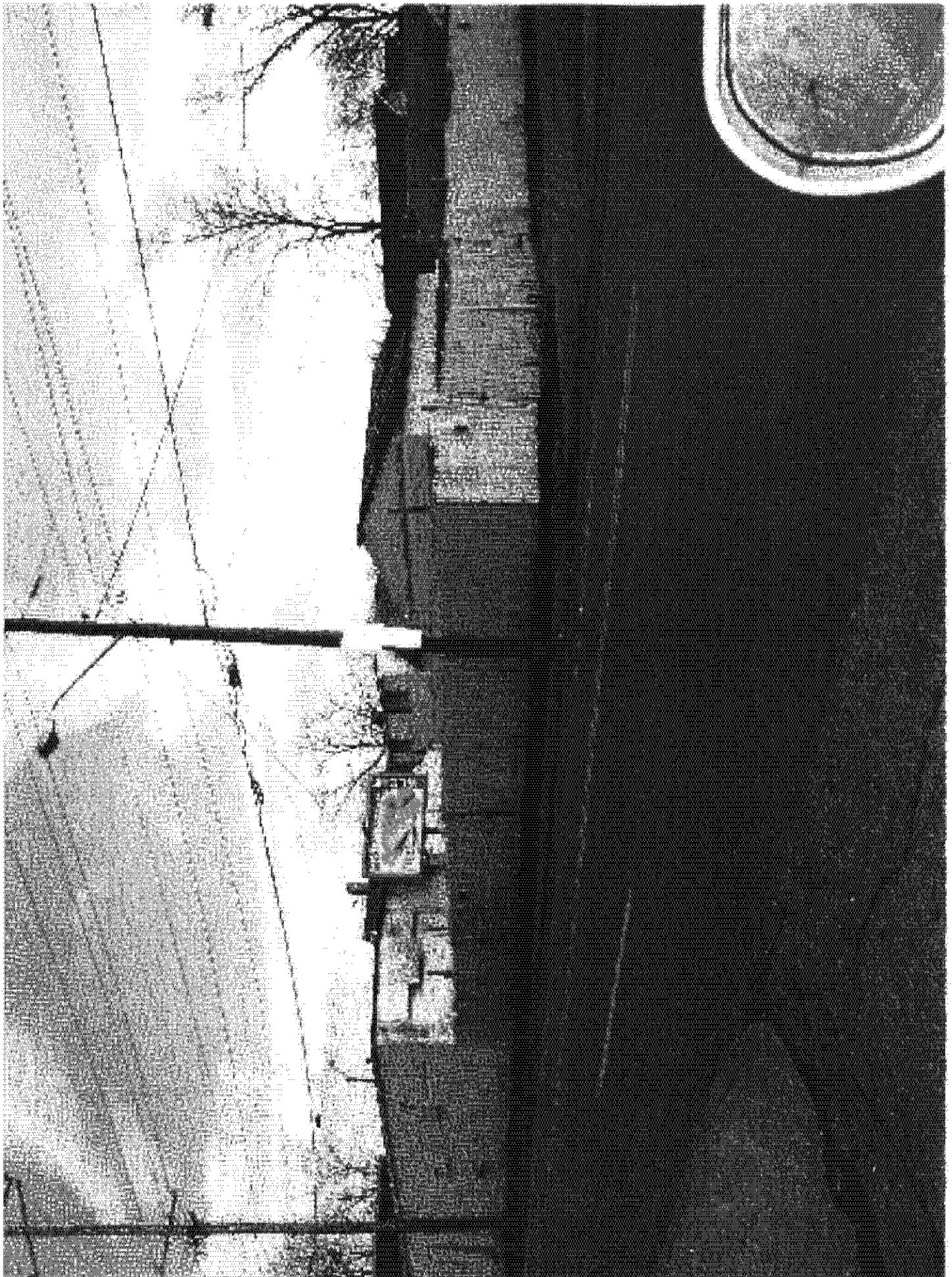


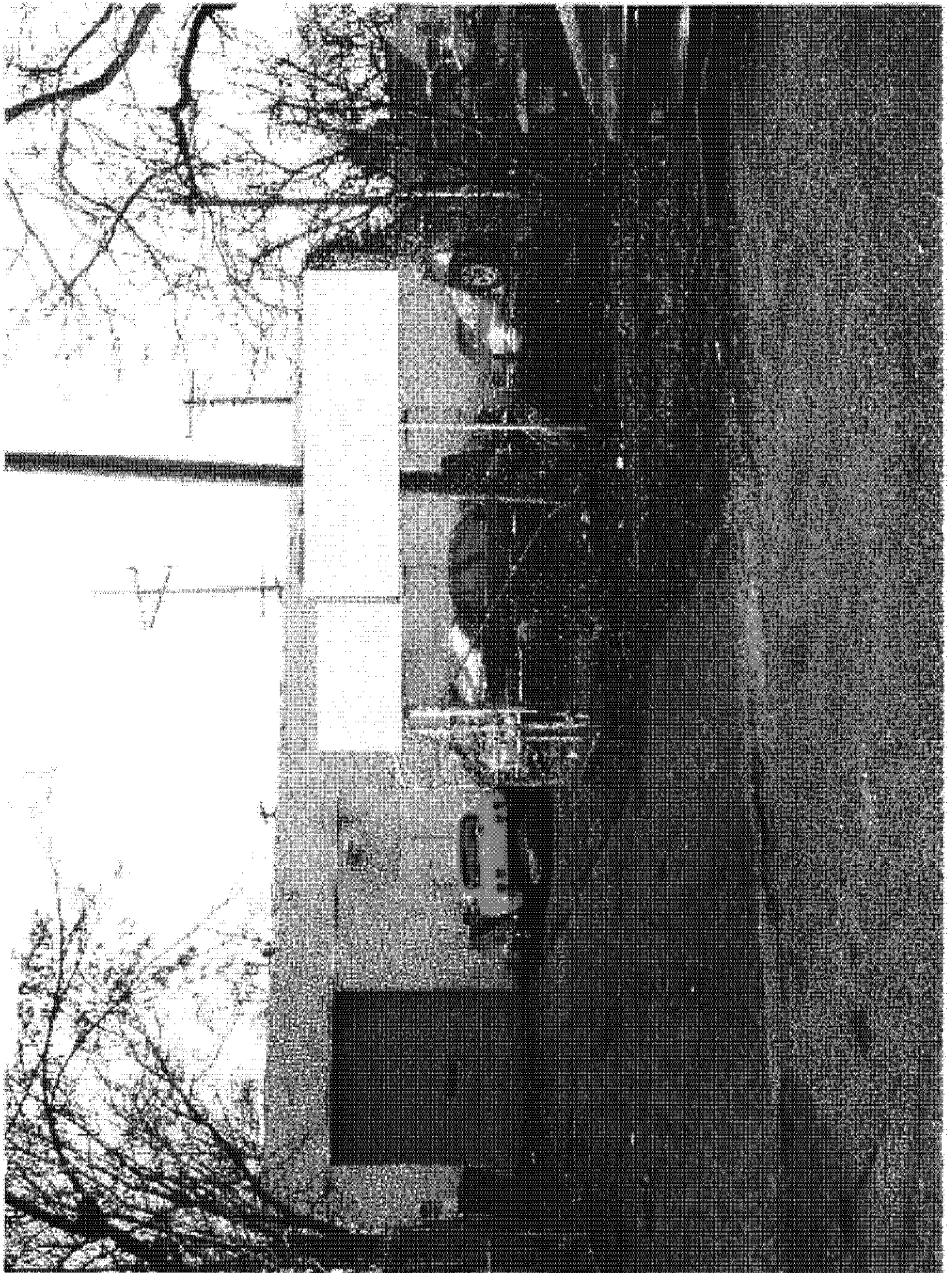


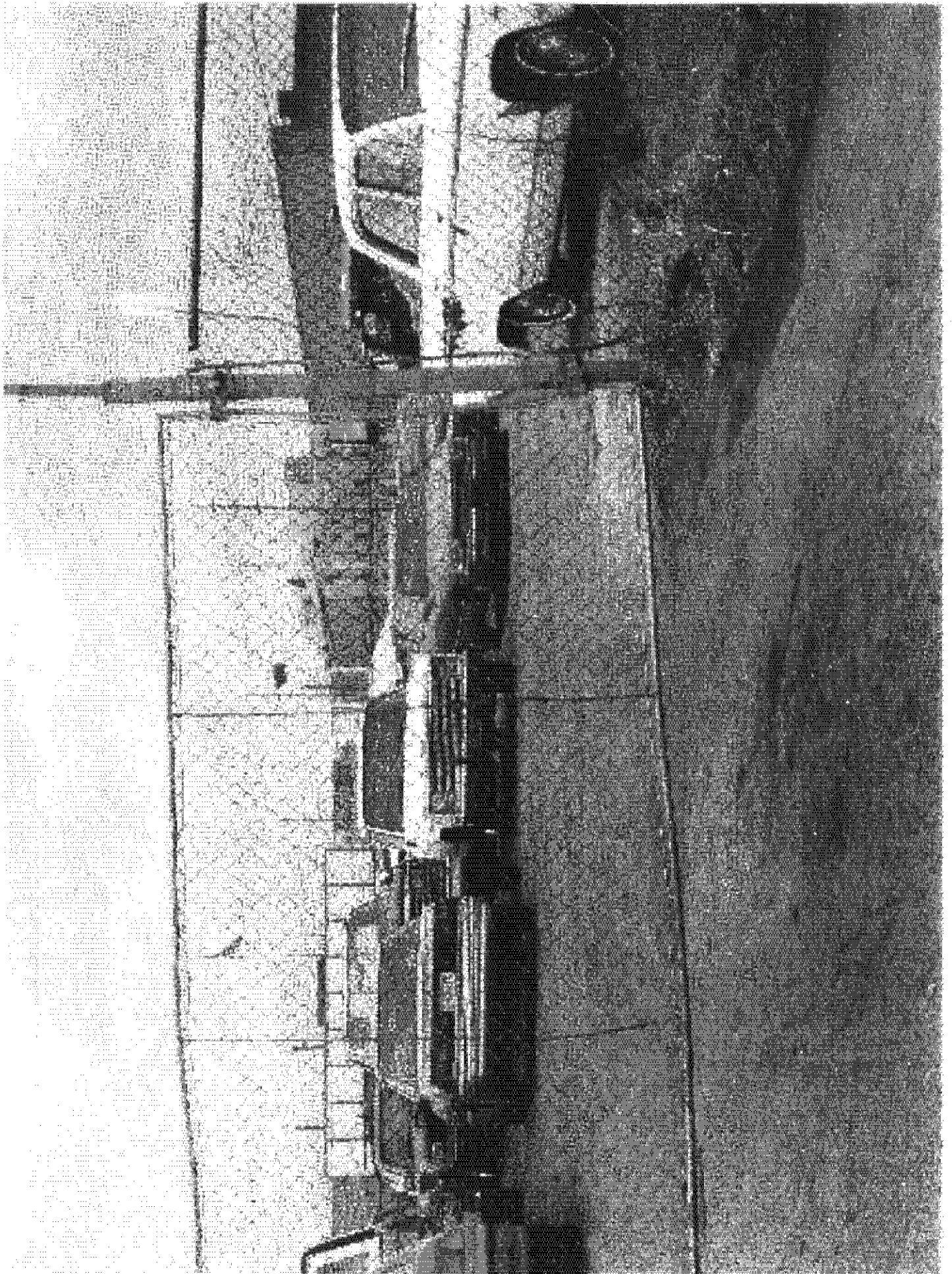


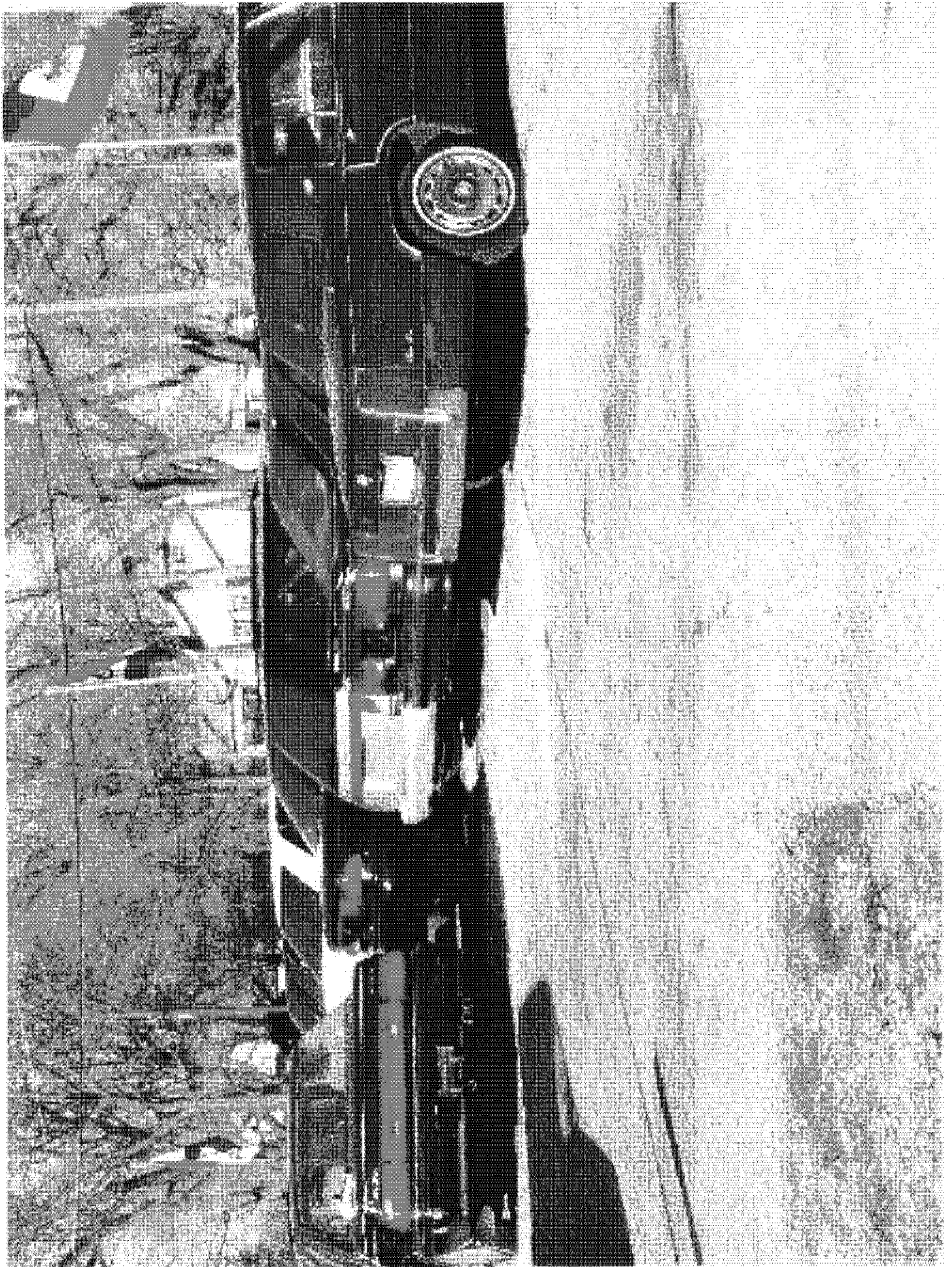


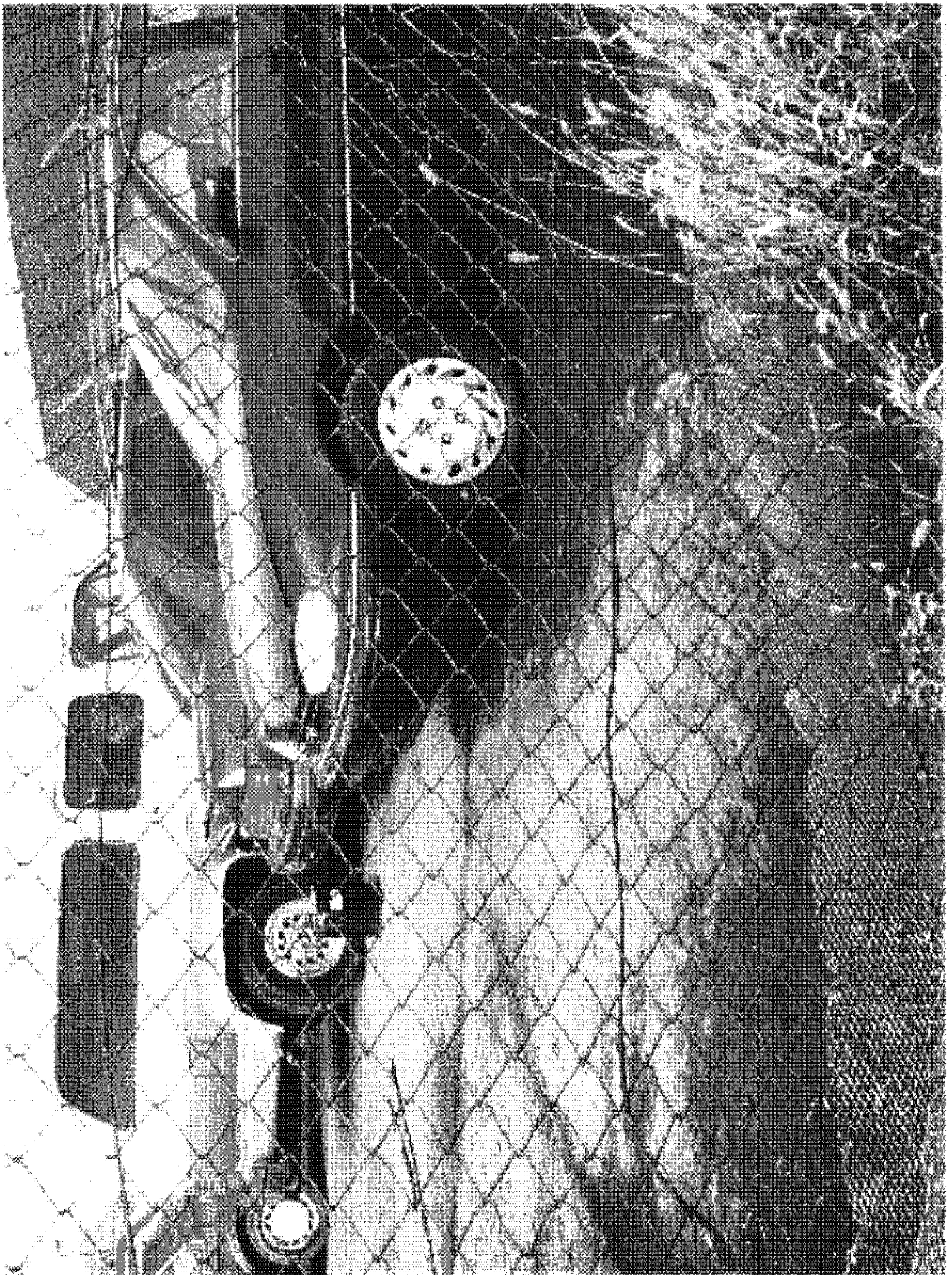


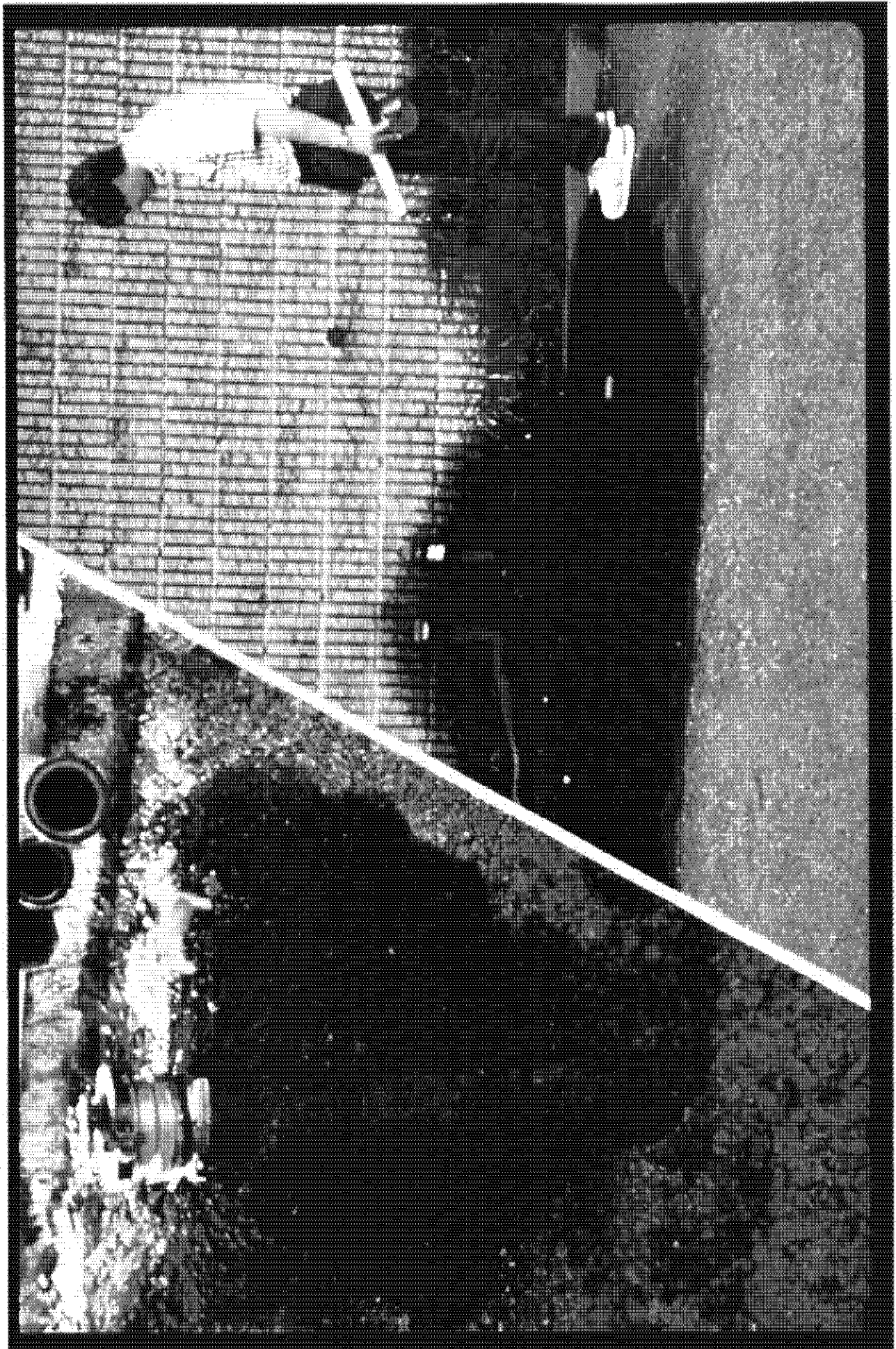










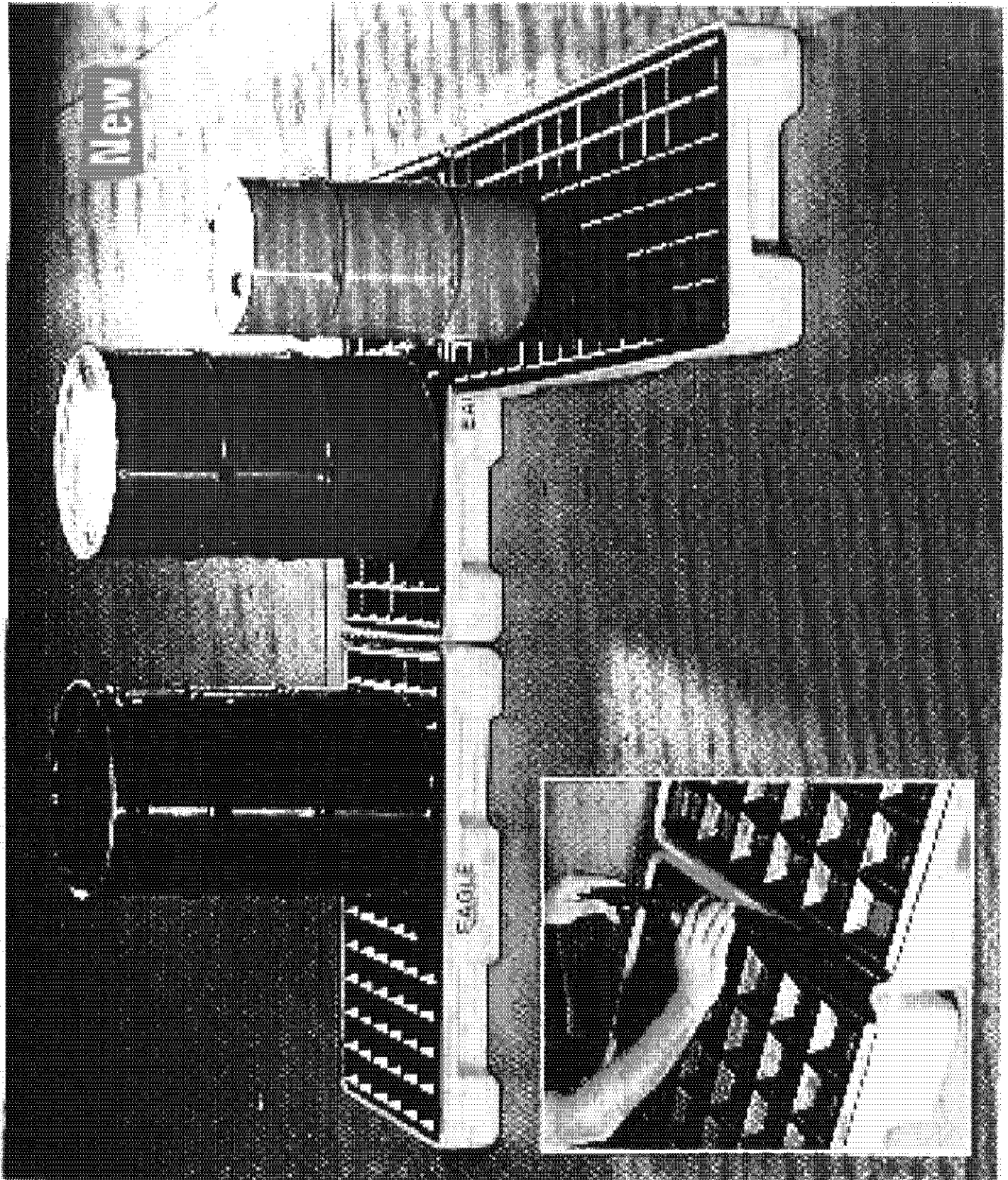


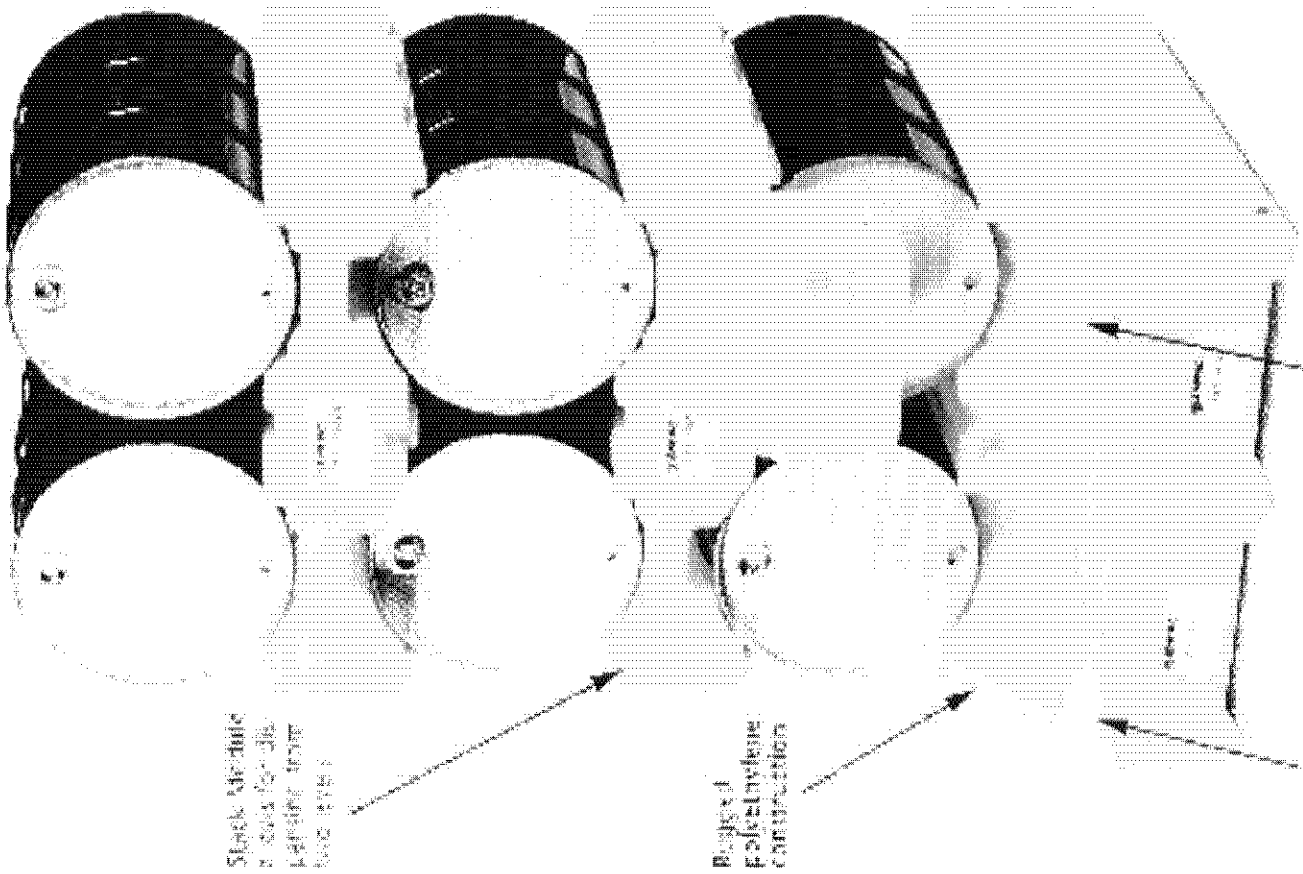
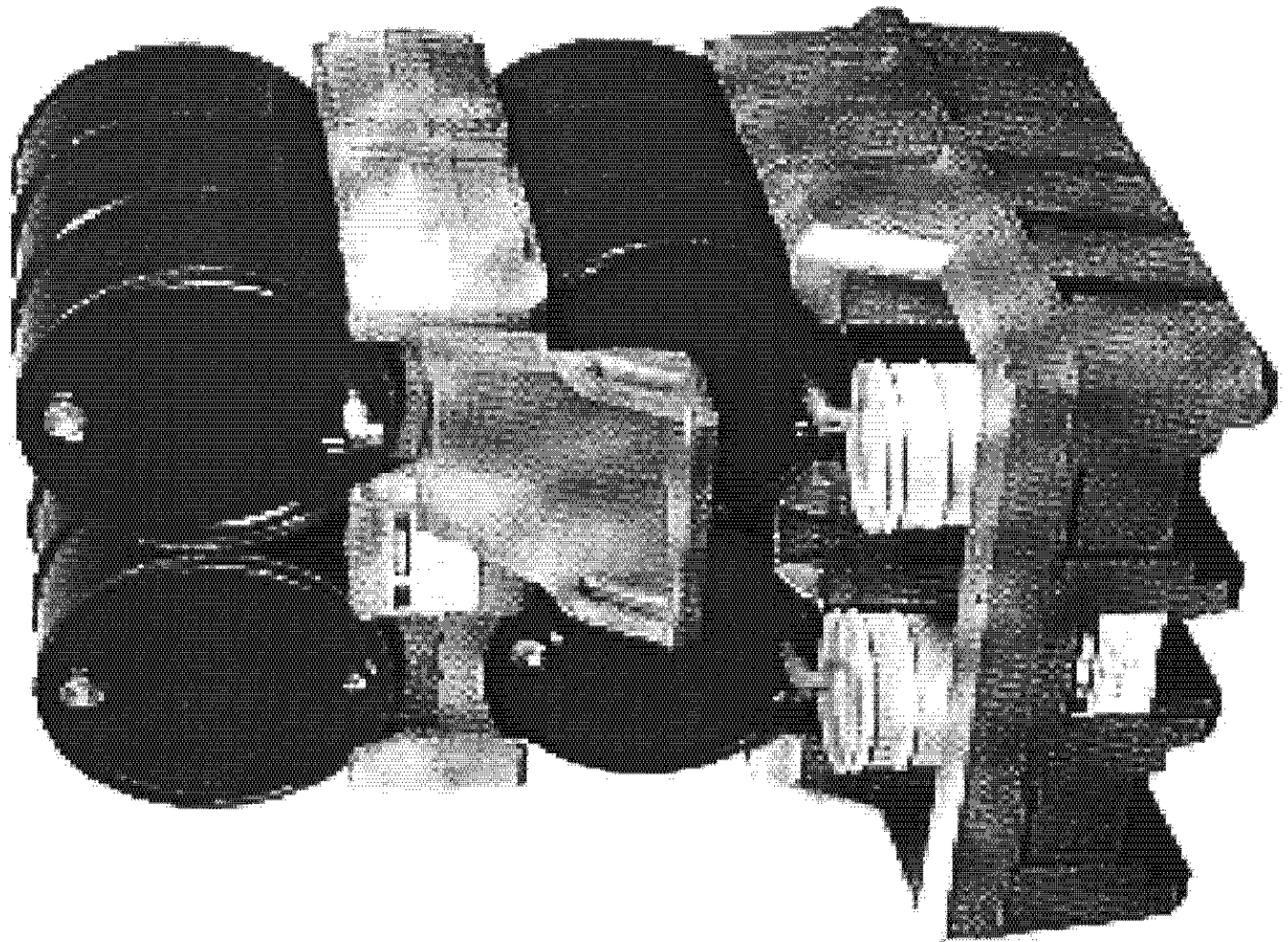
Examples We Like to See

- Waste/chemical storage containers.
- Secondary containment.
- Good housekeeping.
- Minimal outside storage of materials.
- No evidence of spillage.







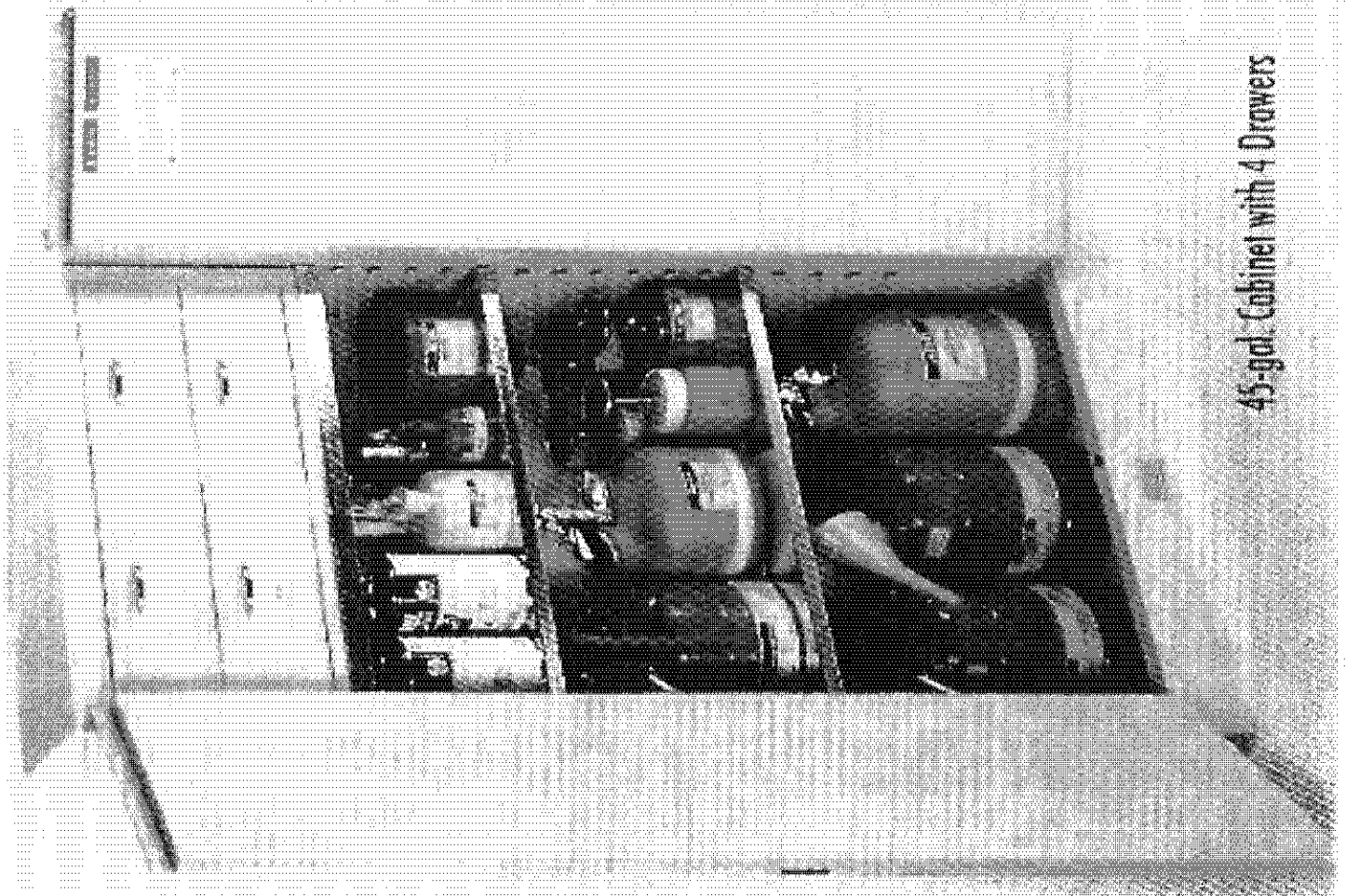


Stack Module
is used for the
latter three
two types

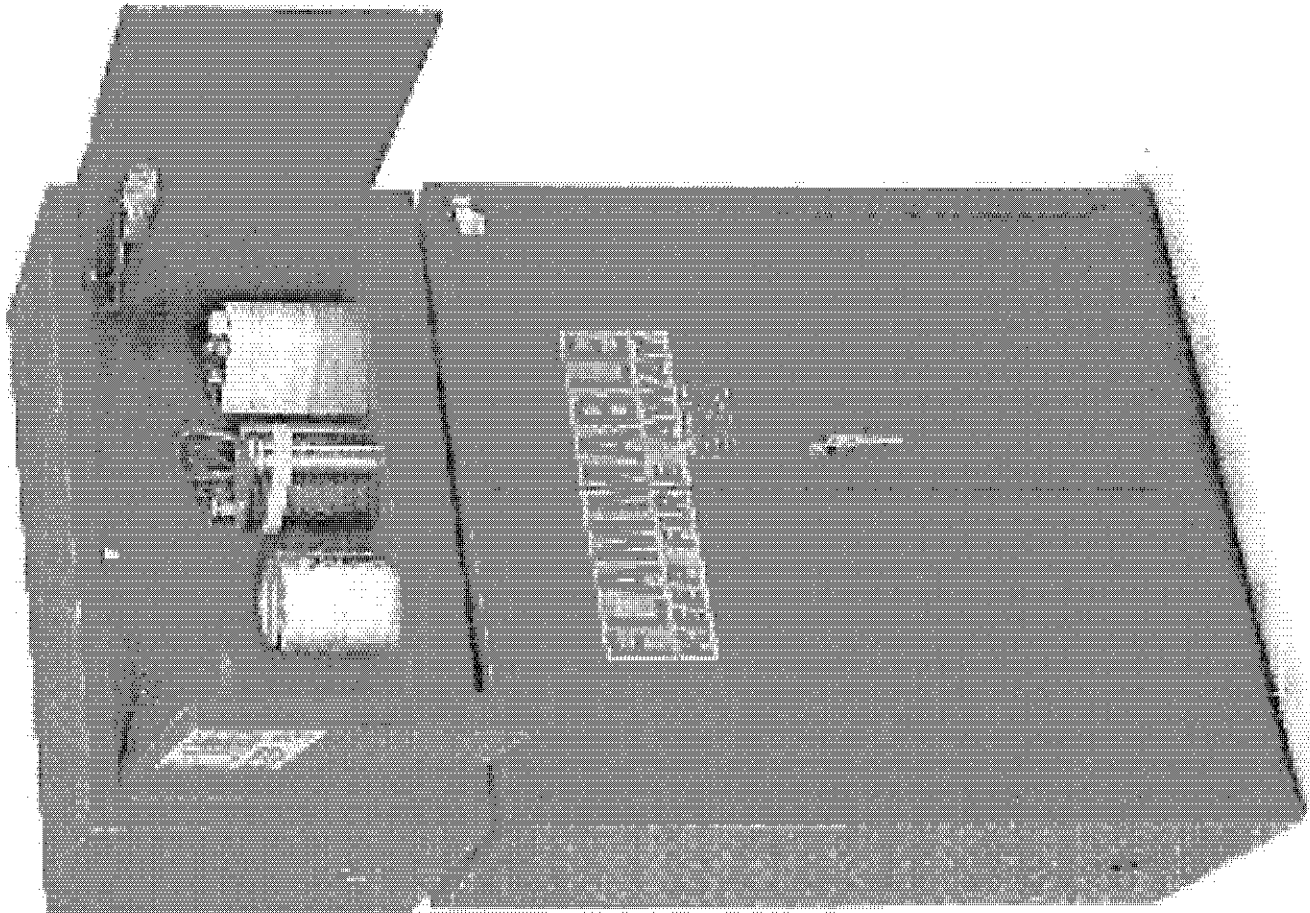
Rugged
polyethylene
construction

Sump tubes 102
contain and excess
SPM and prevent
ACCH from 102

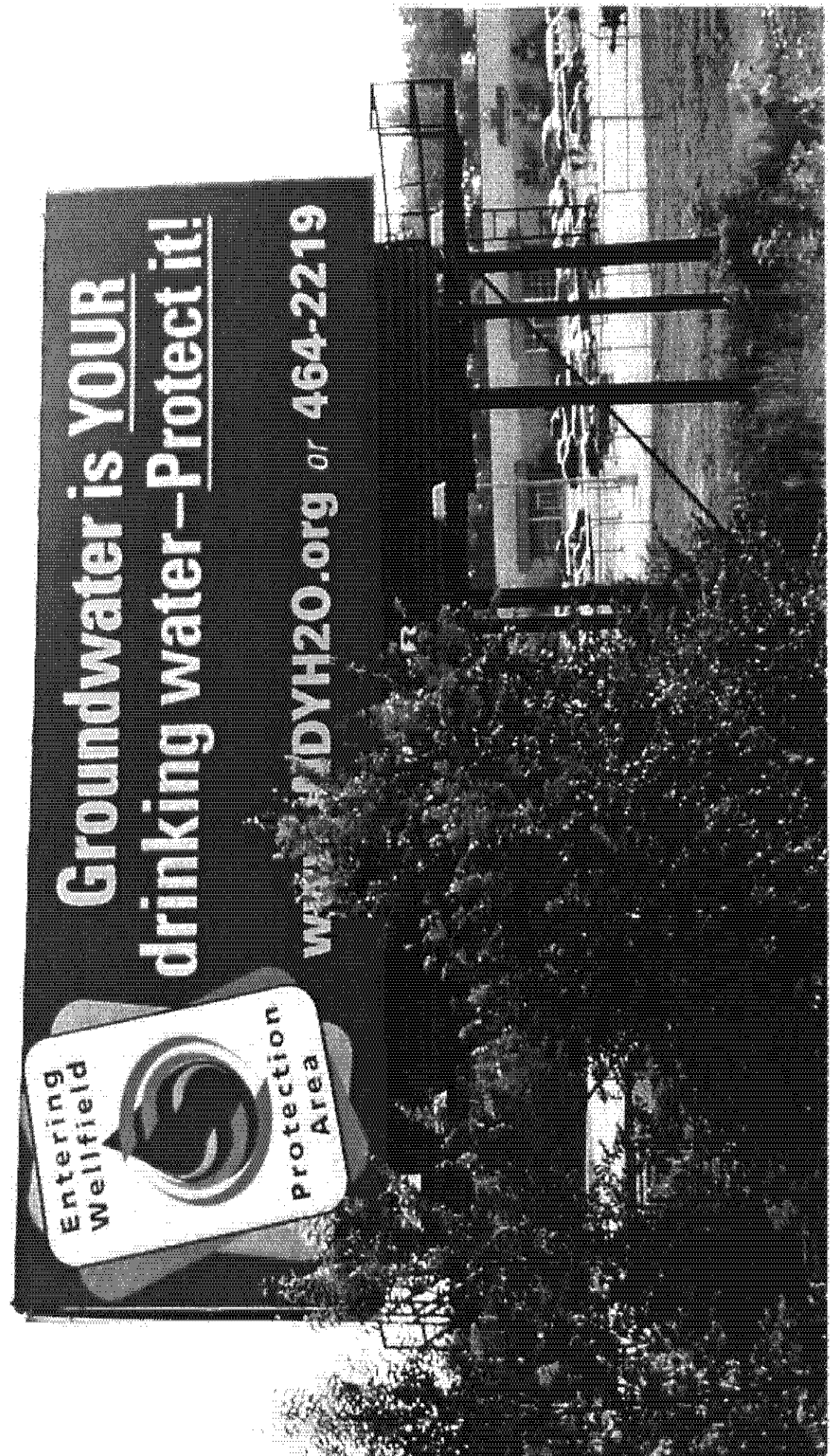
Dispensing well
accommodates a
variety of powders



45-gal. Cabinet with 4 Drawers



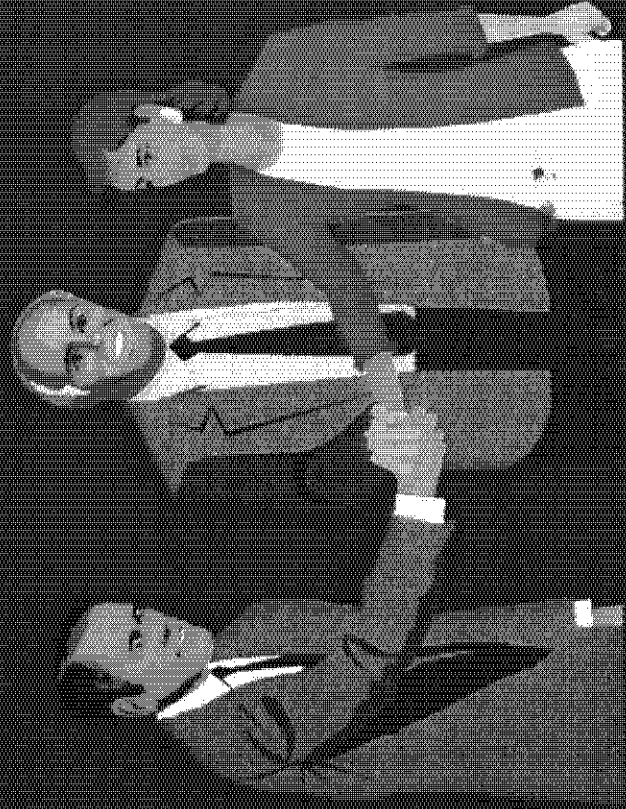
Our Purpose



Indiana Requires a Management Strategy Including:

- Source Management Measures
- Identify Abandoned Wells
- Public Education/Notification
- Signage

MANAGEMENT



Wellfield Management Measures

- **Regulatory Programs** -- Zoning, Source Prohibitions, Plan Reviews, design standards etc.)
- **Non-Regulatory** -- Education, Voluntary Assessment, Technical Assistance, etc.

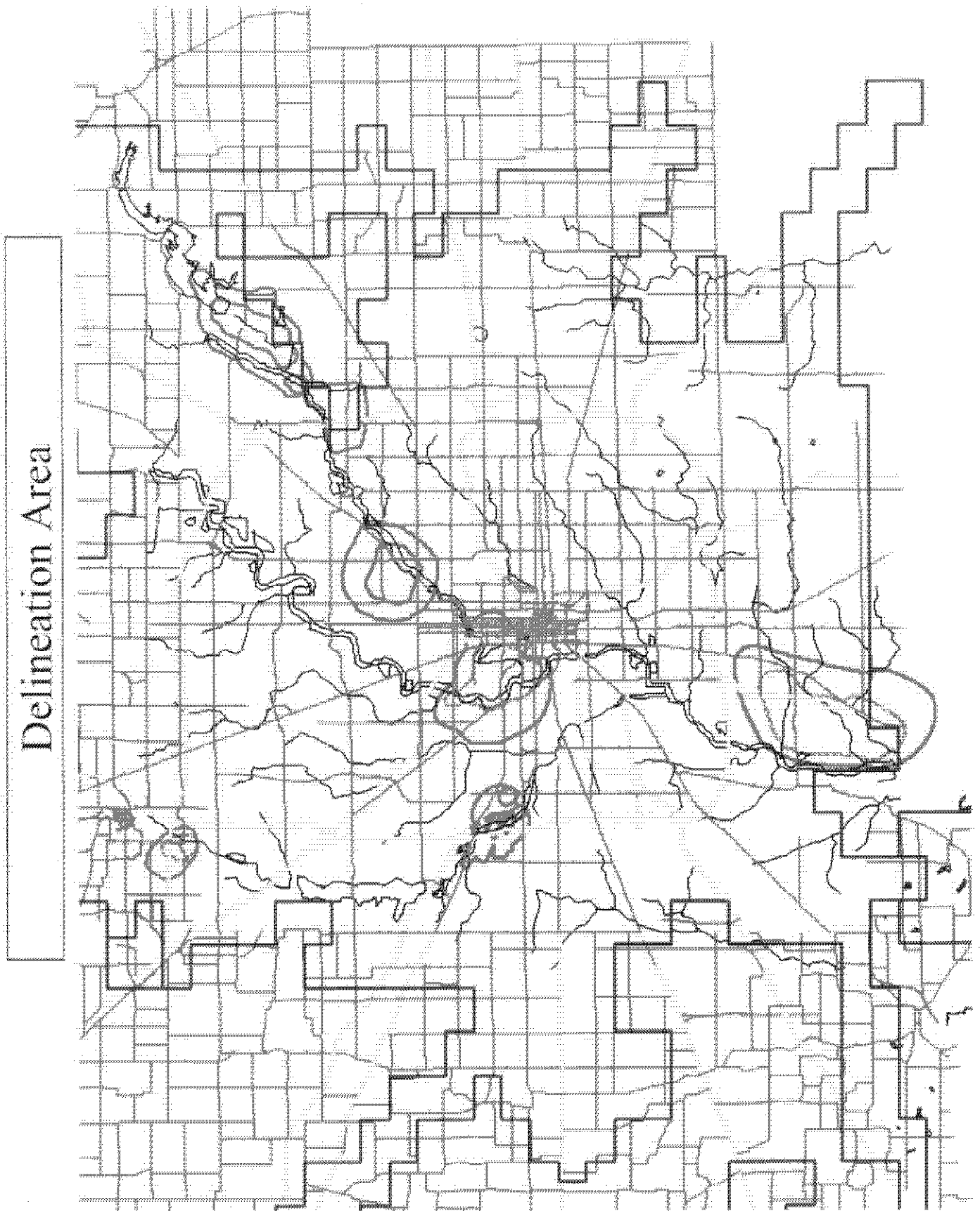
VWI WHP MANAGEMENT

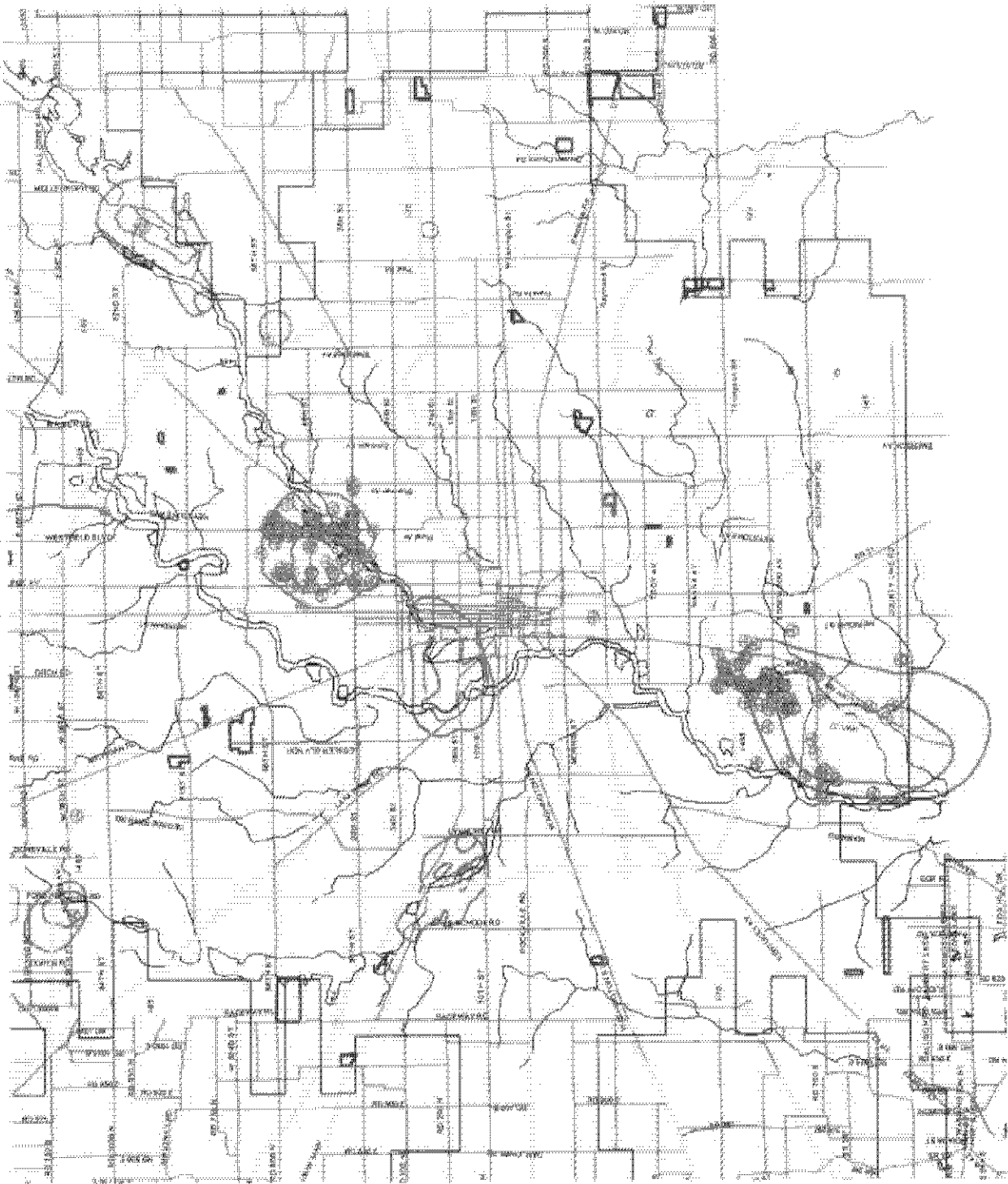
- Local Planning Committees -MCWEC, HCWC
- Potential Source File- Update from discussions with the IDEM, Environmental database searches, Windshield Surveys, and field observations
- Local Zoning Ordinance – Plan reviews ensure adherence to design standards- TQP
- Health Dept. Codes – Provide Reports to MCHH of new installations- they ensure wells properly closed.
- Education– Produced and published flyers, public notification in the paper, Signage, Christopher Burke, Wellhead coloring book)- Develop speaker's bureau for HCWEC in 2006

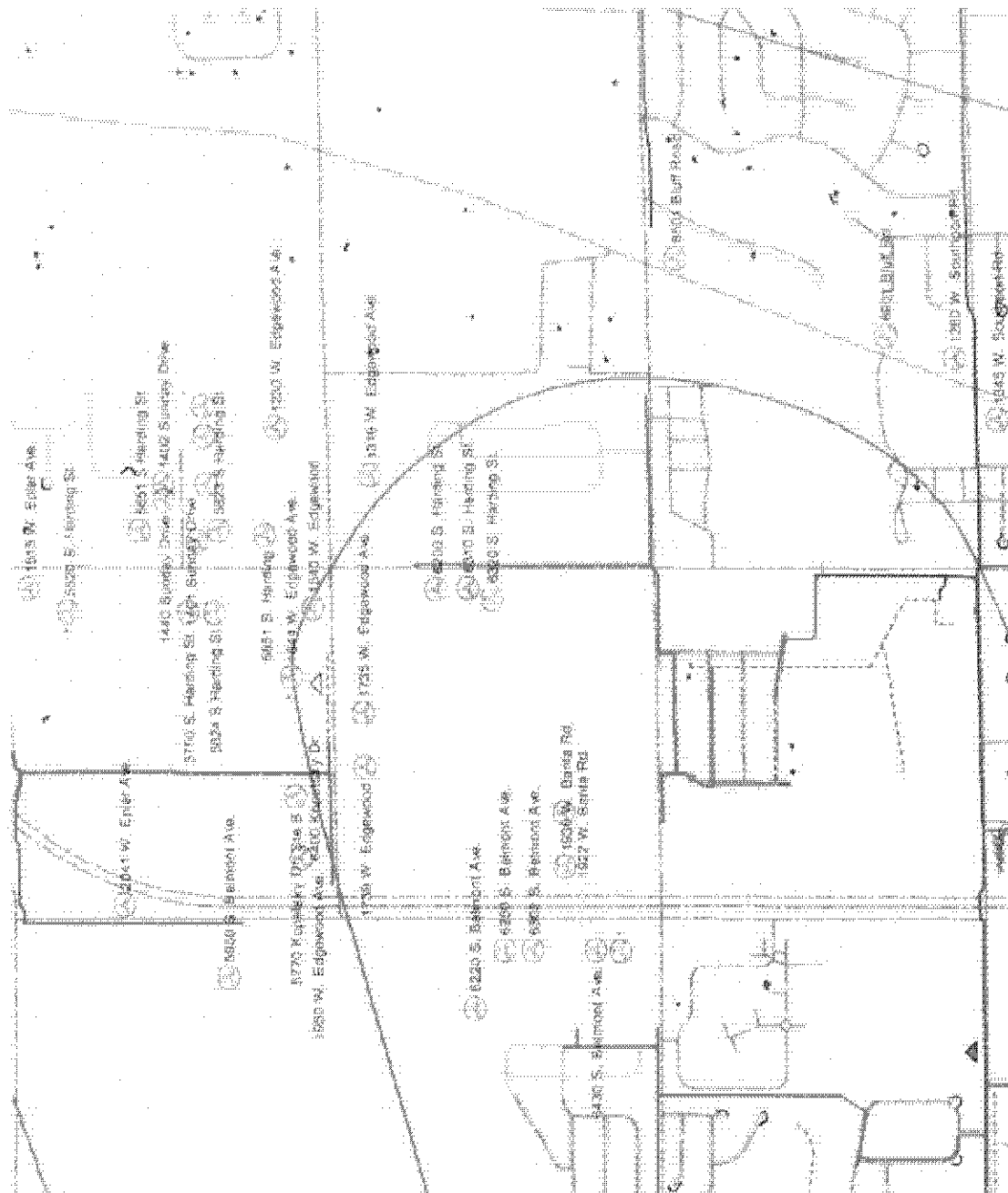
VWI WHP

Recent Initiatives

- **Maintain potential Source File-**
 - Turn on Turn off report
 - Field Observations (Provide voluntary assistance, Identify problematic businesses)
- **Education-**
 - In Hamilton County (Harbour) - 2005 Developed Industrial Brochure, and Wellhead coloring book, both for distribution in 2006







POTENTIAL SOURCE INVENTORY

NAME	ADDRESS	ZIP	PHONE	SITE DESCRIPTION	POTENTIAL CONTAMINANTS	OPERATING STATUS
Phillips 66 (former)	1001 E. 54th St.	46220		Abandoned gas station (Present Auto Repair)	Petroleum products, waste auto fluids, solvents	ACT-1 POS-4
Parbers Bee Window	1002 E. 52nd St.	46205		Window installer	Petroleum products, waste auto fluids, solvents	NFA-1 POS-1
Sullivan & Poore Inc.	1015 E. 42nd St.	46205		Hardware Store	Paint, solvents, petroleum products	POS-2
Mobile Auto Repair Service	1050 E. 54th St.	46220		Gas Station/Repair	Petroleum products, waste auto fluids, solvents	DIS-1 POS-5
Spickelmire (former)	1100 E. 52nd St.	46205		Abandoned gas station	Petroleum products, waste auto fluids, solvents	ACT-1 POS-1
BRS Co. Inc. Serigraphics	1105 E. 52nd St.	46205		Screen Printing	Solvents, metals, ink	1 1 1
Hudson's Furniture Conservatory	1107 E. 52nd St.	46205		Furniture refinishing	Solvents	N/A
IUPUI Krannert Building	1125 E. 38th St.	46205		Classroom labs - former	Solvents, metals, etc.	POS-2
Anderson Lumber & Millwork Co. Inc.	1140 E. 46th St.	46205		Lumber	Petroleum products, waste auto fluids, solvents	POS-3
Reese Central Wholesale Inc.	1155 E. 54th St.	46220		Roofing Contractor & sales	Petroleum products, tar, solvents	POS-1
Indiana School for the Deaf	1200 E. 52nd St.	46205		School	Petroleum products, diesel	CIU-4, POS-3, UNR-2
Indiana State Fairgrounds	1200 E. 42nd St.	46205		Fairgrounds	Petroleum, waste auto fluids, animal wastes	POS-4
Amoco Service Station #26	1202 E. 38th St.	46205		Gas Station	Petroleum products, waste auto fluids, solvents	CIU-3
Hoosier Co. Inc., The	1545 E. 38th St.	46218		Fencing Supplies/Installation	Metals, solvents	1
Super-7 #207	1701 E. 38th St.	46218		Gas Station	Petroleum products, waste auto fluids, solvents	CIU-2
Harrison Health Care Corp.	1731 E. 52nd St.	46205			Petroleum products	CIU-1
Frew Realty	2026 E. 54th St.	46220		Realtor	Diesel fuel, other petroleum	N/A
Goodyear ASC #6722	2144 E. 52nd St.	46205		Auto Repair	Petroleum products, waste auto fluids, solvents	1 POS-1
Palmer Forte Dodge (closed in 1994)	2260 E. 38th St.	46218		Auto Repair & sales - Closed	Petroleum products, waste auto fluids, solvents	3
Nationwide Auto Parts #218 (aka Guarantee Au	2301 E. 44th St.	46205		Auto parts & service - Closed	Petroleum products, waste auto fluids, solvents	ACT-1 POS-1
Quick Stop Cleaners	2306 E. 34th St.	46218		Dry Cleaners	Solvents	1
Northside Rent All (aka K. & Z. Adair)	2325 E. 46th St.	46205		Equipment Rental - Closed	Petroleum products, waste auto fluids, solvents	POS-4 NFA-1

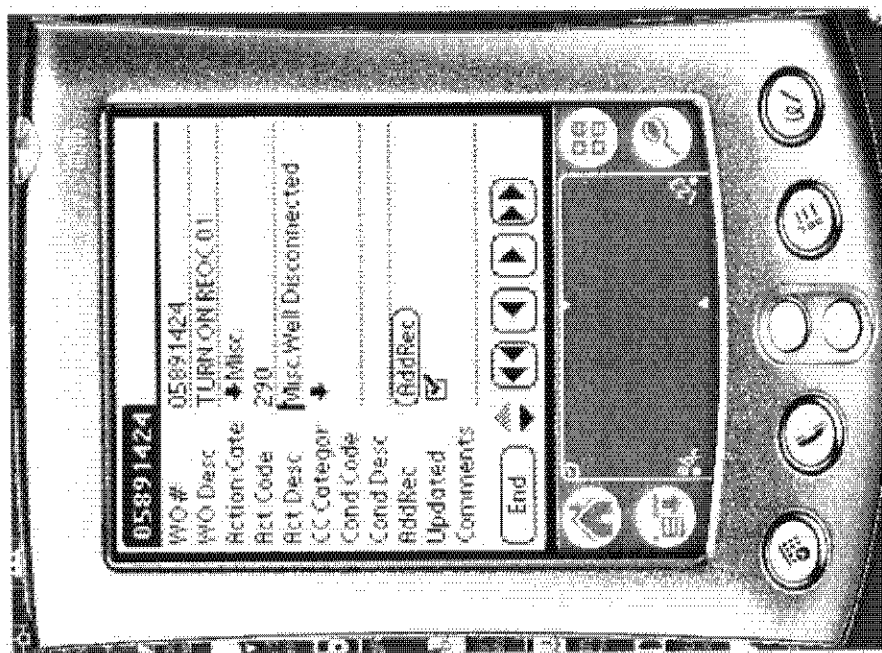
Training for Field Personnel (Dec '04) to help Monitor activities in the well field

Facility Types

- Commercial/industrial facilities
- Maintenance and body shops; gas stations
- Dry cleaners
- Small metal working shops
- Small residential/commercial businesses
- Other small to medium businesses that use chemicals and generate wastes

Indicators for Concern

- Observations of waste storage outside of buildings.
- Drums, containers, tanks
- Evidence of spills: oils, liquids, colored staining on ground
- Evidence of poor housekeeping: lots of old equipment, debris, junk, barrels, abandoned cars, overflowing trash dumpsters.



Field 5 of 13
Act Desc

Misc Well Disconnected Left to BR
Sys

End Record View

Field 5 of 13
Act Desc

Misc Well Disconnected Left to
Spigot

End Record View

Turn on- Turn offs of PCS Legacy Sites

- Send out the welcoming committee
- Provide Education
- Update the PCS file

05888598
WO # 05888598
WO Desc TURN ON CUST CHG 01
Action Code 0-Misc
Act Code 310
Act Desc Misc Pot Contam Review Pr
CC Categor 0-Misc
Cond Code 660
Cond Desc Misc Pot Contam Outdoor
Addr Rec (Addr Rec)
Updated ☒
Comments

End

Field 5 of 13
Act Desc

Misc Pot Contam Review Performed

End Record View

Field 6 of 13
Cond Desc

Misc Pot Contam Fiband Equip

End Record View

Field 8 of 13
Cond Desc

Misc Pot Contam Spill Evidence

End Record View

Inspection Card

- Quick Fill in the blank and check box
- Name/Location of Property
- Observations

Wellfield Business Observation Checklist

Facility: _____ Date: _____

Address: _____ Time: _____

Business Category

- ☐ Dry Cleaning ☐ Auto Repair/Service ☐ Other Industrial
☐ Vehicle Refueling ☐ Construction Site ☐ Other

Wellfield Protection Area

- ☐ Riverside Wellfield
☐ Fall Creek Wellfield
☐ Perry Wellfield
☐ Ford Road Wellfield
☐ Galst Wellfield
☐ South Wellfield
☐ Harbour Wellfield
☐ White River Wellfield
☐ Harding Wellfield

Observations

- ☐ Outdoor Chemical Storage
☐ Outdoor Equipment Storage
☐ Evidence of Spills (Sheens/Stains)
☐ Debris/Trash/Dumping
☐ Other

What can you John Q Citizen Do?

- Keep your property clean, properly storing and disposing of chemicals (don't flush chemicals down toilets, or dump chemicals)
- If you have a septic system, have it inspected and serviced regularly
- Read labels and follow directions on all chemicals, fertilizers, pesticides, and hazardous products you use.
- Discuss the importance of wellhead protection with your neighbors

Davis, Sherrae

From: West, Darrel (Indianapolis)
Sent: Monday, January 30, 2006 5:11 PM
To: Davis, Sherrae; Ratliff, Tim; Champlin, Herb; Rabb, Dan; Pershing, Dale; Peterson, David; Gunn, Jim; Buffington, Doug; Miller, Jeff; Hill, David-Indianapolis; Kline, John D.; Elliott, Mike; Bedgood, Tim; Bowling, Kyle; Richardson, Darrell; Allen, Jim; Rubin, Kristine; Meehan, Phil; Ratliff, Terry L.; Johann, David; Sponset, Douglas; Curtis, Bill; Hunter, Max; Gallagher, Joel; McCormick, Lora L.; Dougherty, Tom J.; McVey, Tracy; Willis, Debbie; Anderson, Vicky L.; Foxworthy, Ted; Washburn, Jim; Avey, Charline M.; McLearn, Greg; Frakes, Dave; Miller, Cynthia J.; Knarr, Ken; Bruce, Dianna; Pekar, Lina S.; Dale, Trienna; Thomas, Jon; Allen, Mike; Malone, Ed; Koch, Dale A.; Harrington, Cindy; Witte, Michael; Keys, Milton L.; Taylor, Heather; Wright, Chris; Whiting, Duane A.; Guthrie, Robert; Rothgerber, Steve; Shockley, Mark H.; Streib, Bob; Oliphant, Bob; Bedgood, Karmyn; Reidy, Daniel M.; Hammer, Danny; Grocki, Paul; Wolf, Bill; Hunt, Steve; Graves, Stanley J.; Tuttle, Tom; Hunter, Max; Williams, Ted; Stater, Brian; scorbitt@corbittconst.com; Miles, Debra; Halloran, Dominique; Hulse, Bill; Law, Michelle; Corinaldi, Dorilynn
Cc: Burton, Rob; Dicken, Paul J.; Collins, Ed-IWC; Groth, Jackie; Giles, Charlene; Gadis, David; Zabor, Tom; Seillier, Jean-Michel; Willans, Alyson; Humphrey, Kathy; Hewitt, Tim; Voltz, Chuck; Berry, Melissa L.; Thomas, Gary
Subject: Monthly EHS&S Training for February 2006

In the words of one popular major tire manufacturer "There's a lot riding on your tires". With that in mind, February's safety topic will deal with tire safety. There will be 4 training sessions covering Tire Safety and the environmental topic will cover **Source Water Protection - Ground Water**. These sessions will be held on February 7th from 8:00am to 9:30am, February 14th from 8:00am to 9:30am, February 21st from 7:30am to 9:00am and February 28th from 7:30am to 9:00am in the cafeteria conference room.

For those who choose to deliver training independently, training materials will posted electronically to the Vnet shortly. If you elect to deliver your department's training independently, please send me a copy of the training documentation.

To access the online training materials (which will be posted shortly):

- Open your internet browser
- Type - vnet - in the address line of the browser
- Select Indianapolis
- Select Safety
- 2006 Safety Information
- February 2006 safety information.

Additionally, the monthly safety training schedule has been posted to the intranet under 2006 Safety Information.

Please do not hesitate to call with any questions

Darrel West
 Director of EHS&S
 Veolia Water Indianapolis, LLC
 1220 Waterway Blvd.
 Indianapolis, IN, 46202
 Office 317-263-6410
 Fax 317-263-6369
 Cell 317-716-5682
 darrel.west@veoliawaterna.com
www.indianapoliswater.com

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WELLHEAD PROTECTION

What in the world?

- Wellhead protection is a community based process that emphasizes “protection” of the drinking water resources from potential sources of contamination.

The Evolution of SOURCE WATER PROTECTION

TIME	EVENT
------	-------

1974	Congress passed SWDA
------	----------------------



1986, 1996	Amendments
------------	------------



1997	Indiana signs Wellhead Protection Rule
------	--



March 2002	Completion
------------	------------



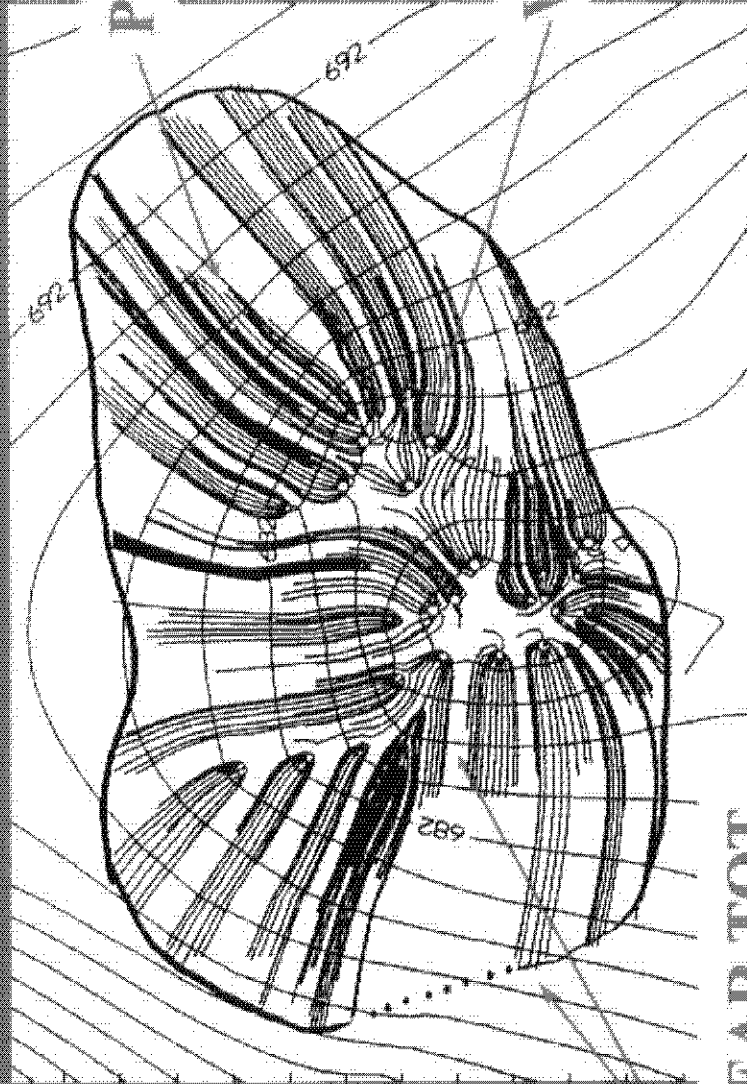
2007	Demonstrate Compliance
------	------------------------

Surface Water Delineations

- Upper White River Watershed



TIME OF TRAVEL DELINEATION

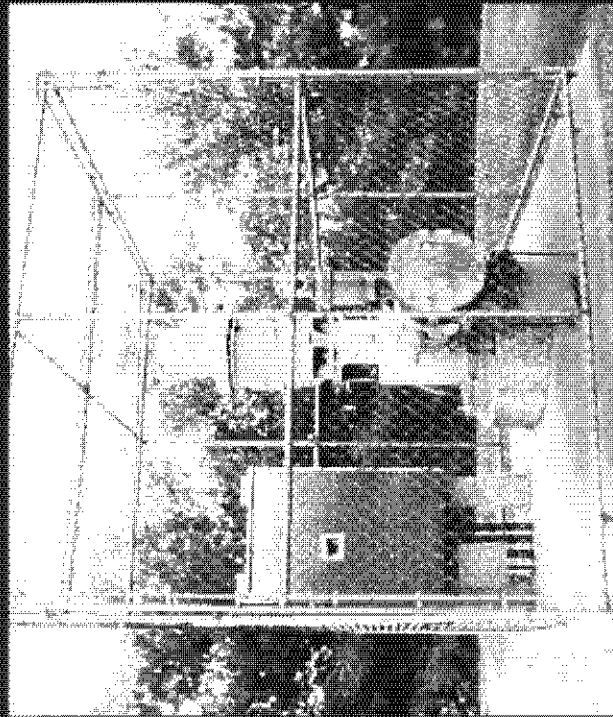


1 and 5-YEAR TOT
BOUNDARY

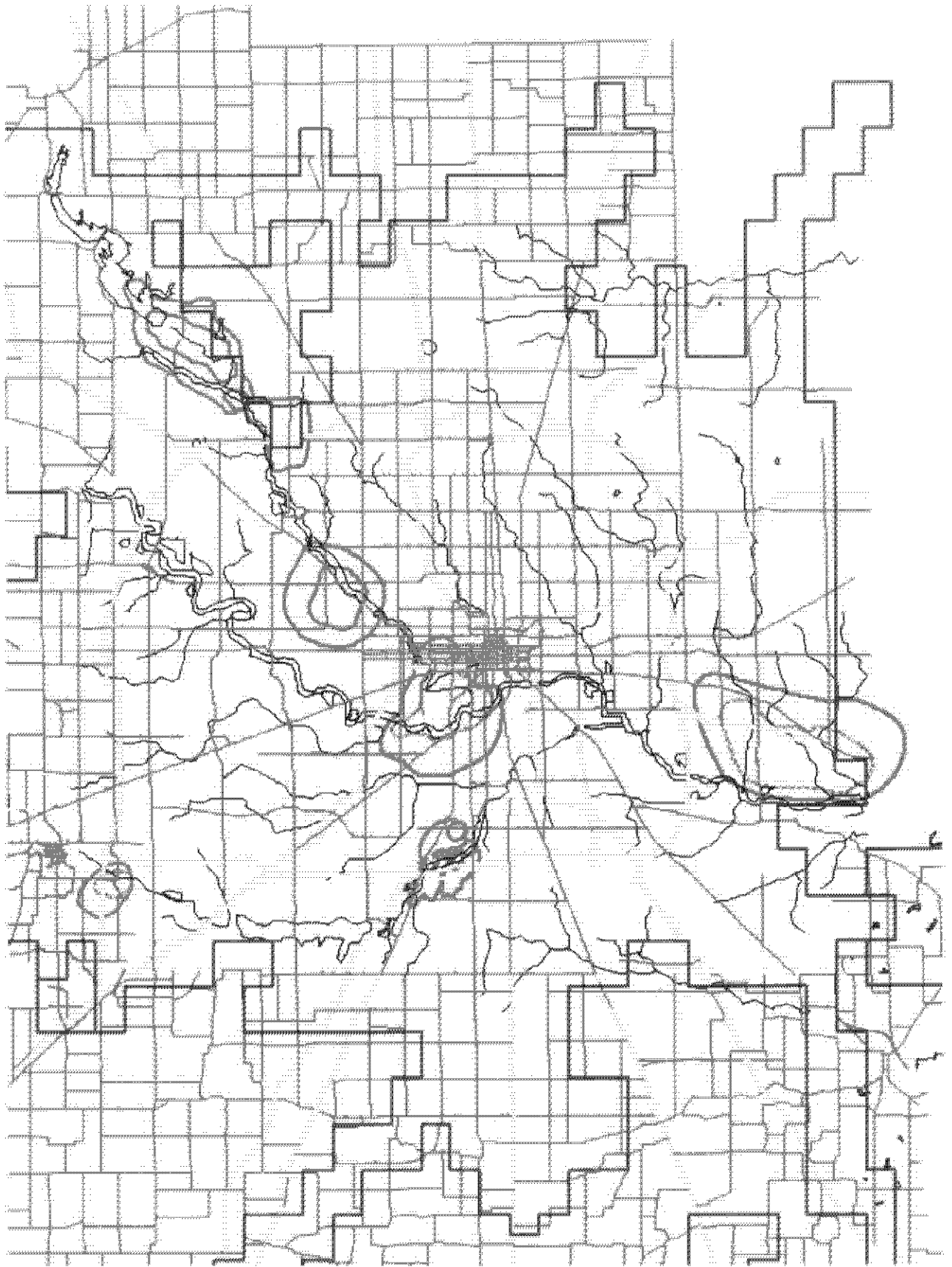
DELINEATION

- Indiana requires a 5-year time of travel (Modeled Delineation)
- USGS data Local Stream flows
- Water levels recorded on drilling logs
- DRASTA
 - depth to the water (water table)
 - aquifer materials (sand gravel and gradient, limestone)
 - amount of clay thickness
 - soil type (1st layer of protection)
 - slope

Remodel every 5 years



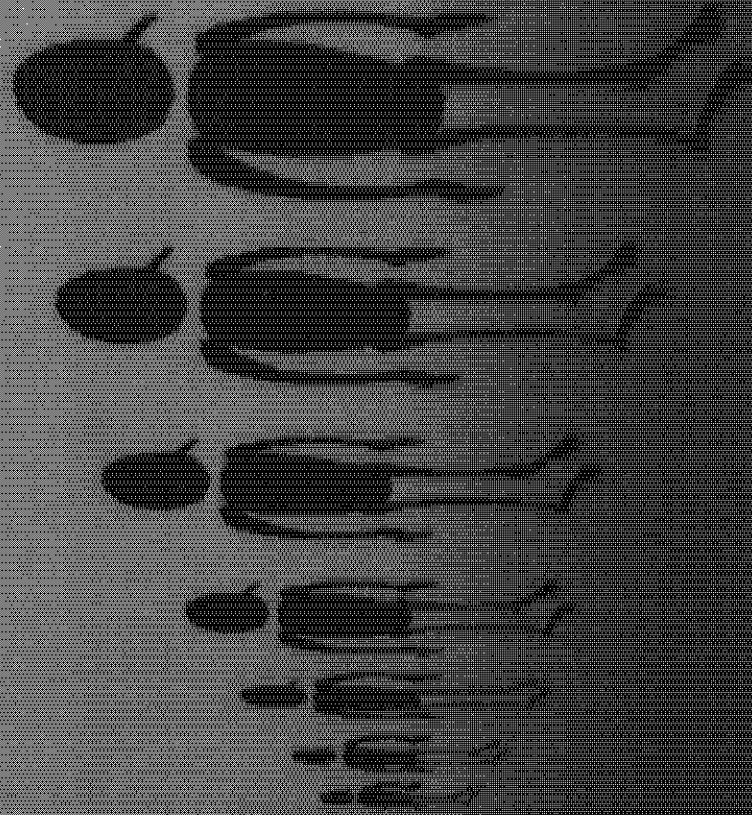
Delineation Area



ROLES & RESPONSIBILITIES

- Indiana requires a local planning team to guide the process

- Marion County
- Hamilton County



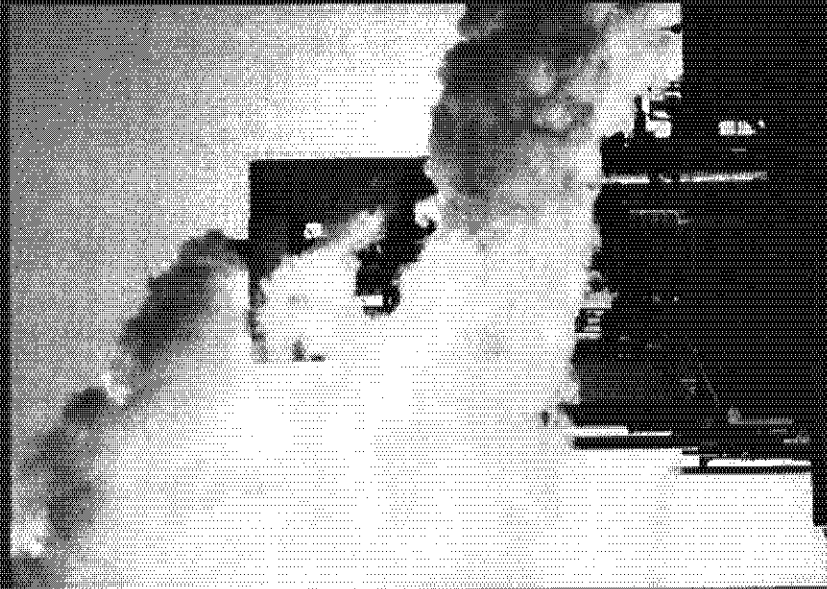
POTENTIAL SOURCE INVENTORY

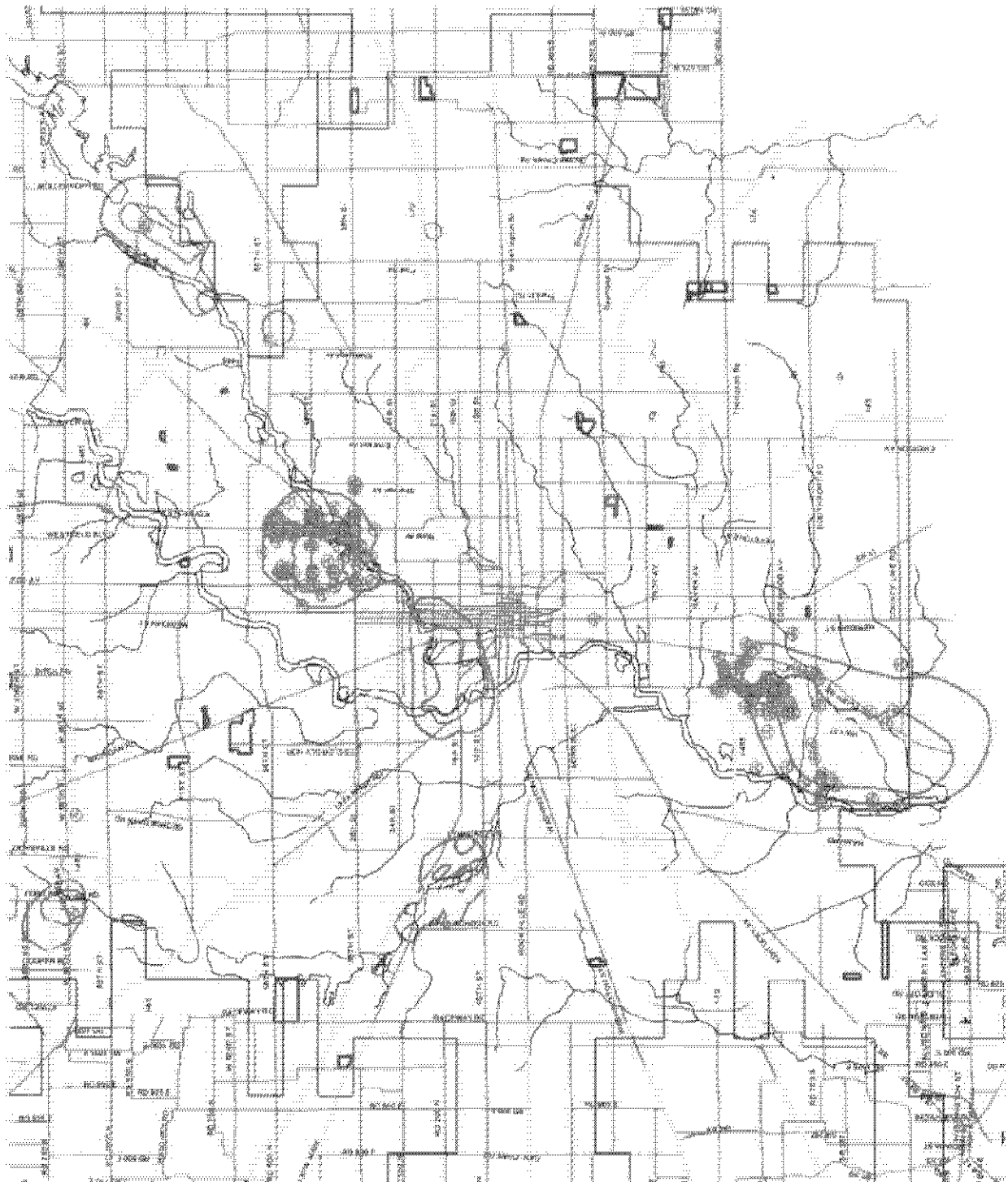
- Indiana requires mapping of all potential sources and land use in wellhead area
- --Printers (Ketone)
- -- Auto Repair Shops
- --Gas Stations (Benzene)
- --Dry Cleaners (PERC)
- --Fabrication Shops

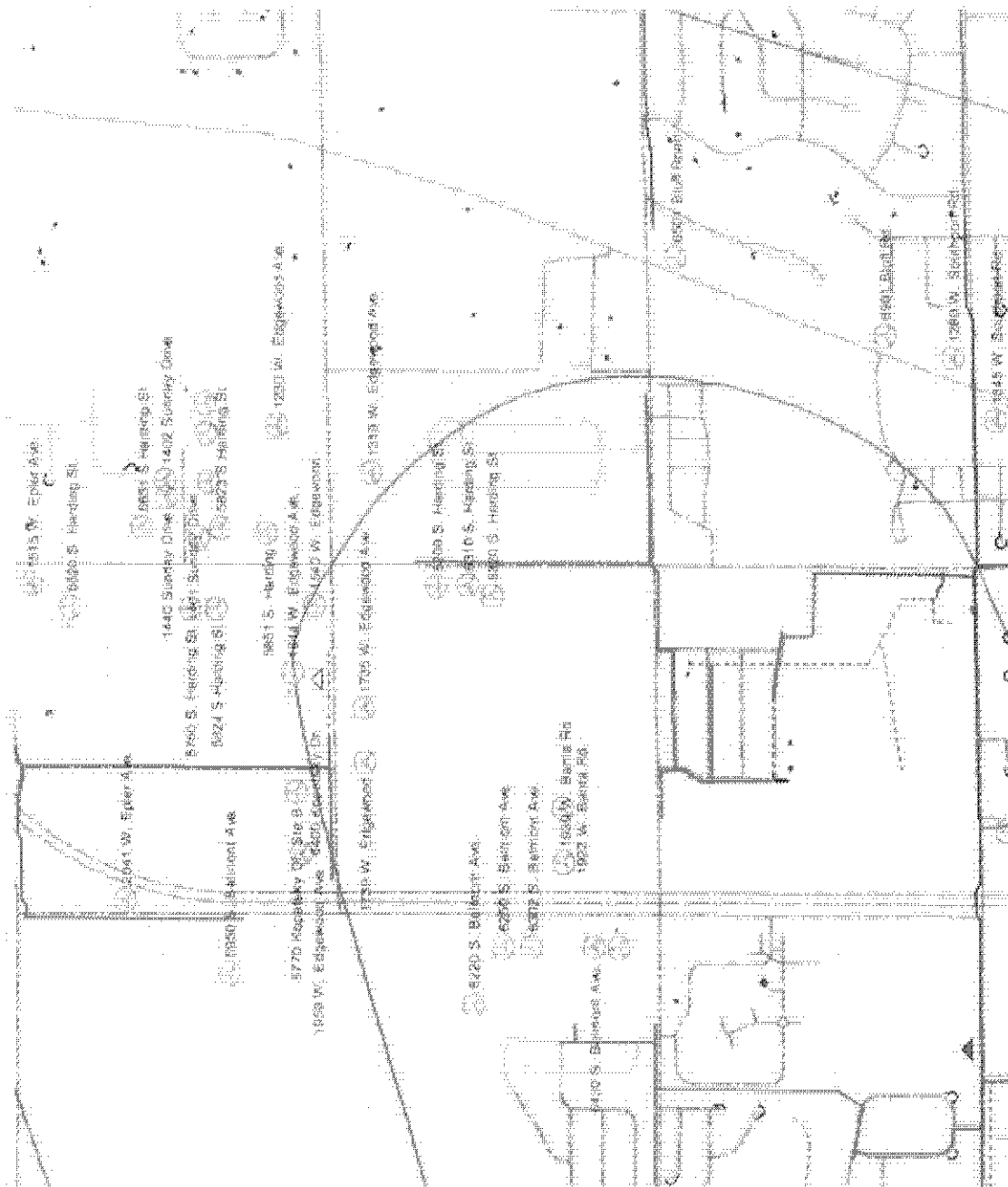
(solvents, fuels, other chemicals)

WT-1 1 gal liquids, 6 lbs solids

WT-5 100gal liquids, 600 lbs solids







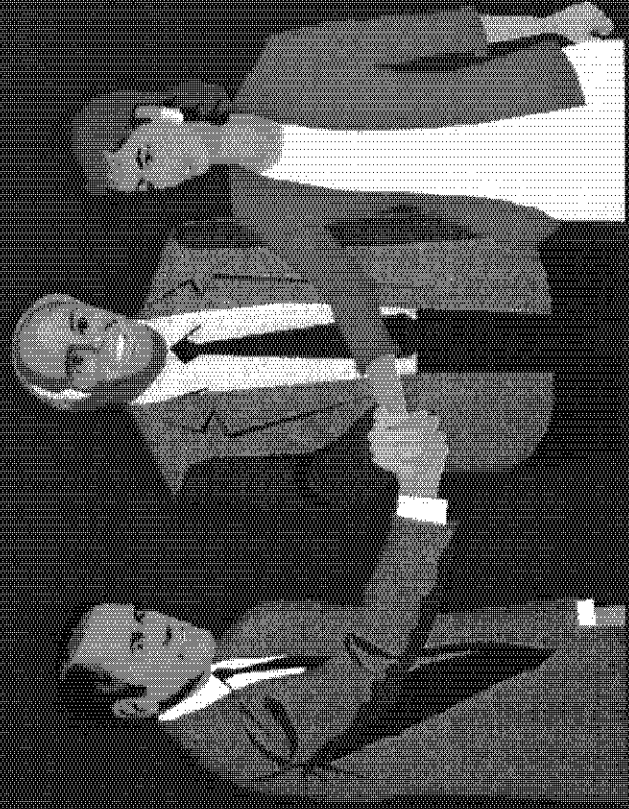
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				Present Auto Repair		POS-4
Fabers Bee Window	1002 E. 52nd St.	46205		Window installer	Petroleum products, waste auto fluids, solvents	NFA-L
						POS-1
Sullivan & Poore Inc.	1015 E. 42nd St.	46205		Hardware Store	Paint, solvents, petroleum products	POS-2
Mobile Auto Repair Service	1050 E. 54th St.	46220		Gas Station/Repair	Petroleum products, waste auto fluids, solvents	DIS-L
						POS-5
Spickelmeier (former)	1100 E. 52nd St.	46205		Abandoned gas station	Petroleum products, waste auto fluids, solvents	ACT-L
						POS-1
BRS Co. Inc. Serigraphics	1105 E. 52nd St.	46205		Screen Printing	Solvents, metals, ink	1
						1
Hudson's Furniture Conservatory	1107 E. 52nd St.	46205		Furniture refinishing	Solvents	1
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Reese Central Wholesale Inc.	1155 E. 54th St.	46220		Roofing Contractor & sales	Petroleum products, tar, solvents	POS-3
	1200 E. 52nd St.	46205				POS-1
Indiana School for the Deaf	1200 E. 42nd St.	46205		School	Petroleum products, diesel	CIU-4, POS-3, UNR-2
Indiana State Fairgrounds	1202 E. 38th St.	46205		Fairgrounds	Petroleum, waste auto fluids, animal wastes	POS-4
Amoco Service Station #26	1545 E. 38th St.	46218		Gas Station	Petroleum products, waste auto fluids, solvents	CIU-3
Hoosier Co. Inc., The	1701 E. 38th St.	46218		Fencing Supplies/Installation	Metals, solvents	1
Super-7 #207	1731 E. 52nd St.	46205		Gas Station	Petroleum products, waste auto fluids, solvents	CIU-2
Harrison Health Care Corp.	2026 E. 54th St.	46220			Petroleum products	CIU-1
Frew Realty	2144 E. 52nd St.	46205		Realtor	Diesel fuel, other petroleum	N/A
Goodyear ASC #6772	2260 E. 38th St.	46218		Auto Repair	Petroleum products, waste auto fluids, solvents	1
						POS-1
Palmer Forte Dodge (closed in 1994)	2301 E. 38th St.	46218		Auto Repair & sales - Close	Petroleum products, waste auto fluids, solvents	3
Nationwide Auto Parts #218 (aka Guarantee Aut)	2301 E. 44th St.	46205		Auto parts & service - Close	Petroleum products, waste auto fluids, solvents	ACT-L
						POS-1
Quick Stop Cleaners	2306 E. 34th St.	46218		Dry Cleaners	Solvents	1
Northside Rent All (aka K. & Z. Adair)	2325 E. 46th St.	46205		Equipment Rental - Closed	Petroleum products, waste auto fluids, solvents	POS-4
						NFA-L

Indiana Requires a Management Strategy Including:

- Source Management Measures
- Identify Abandoned Wells
- Public Education/Notification
- Signage

MANAGEMENT



Wellfield Management Measures

- **Regulatory Programs** -- Zoning, Source Prohibitions, Plan Reviews, design standards etc.)
- **Non-Regulatory** -- Education, Voluntary Assessment, Technical Assistance, etc.

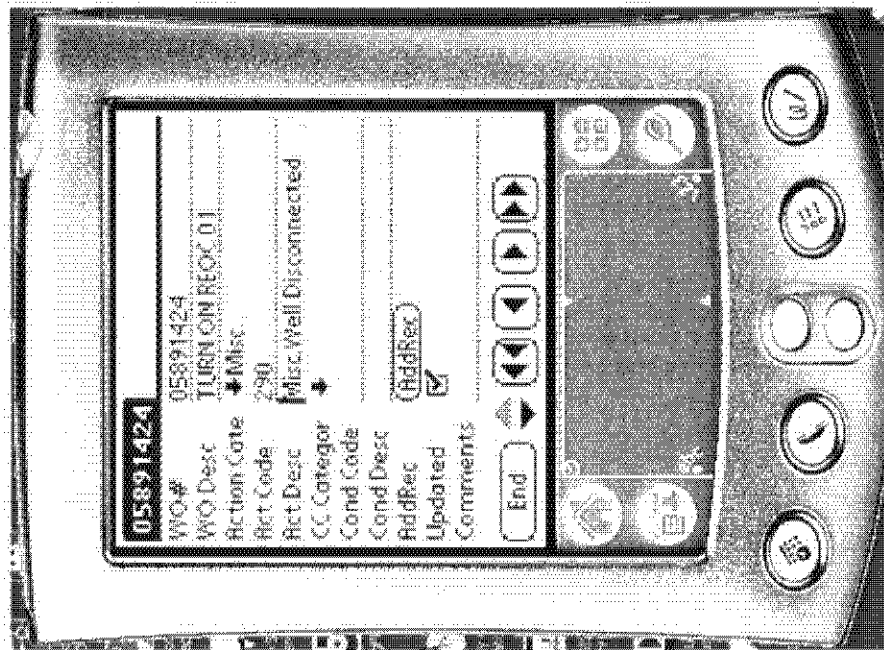
VWI WHP MANAGEMENT

- Local Planning Committees -MCWEC, HCWC
- Potential Source File- Update from discussions with the IDEM, Environmental database searches, Windshield Surveys, and field observations
- Local Zoning Ordinance -- Plan reviews ensure adherence to design standards- TQP
- Health Dept. Codes -- Provide Reports to MCHH of new installations- they ensure wells properly closed.
- Education-- Produced and published flyers, public notification in the paper, Signage, Christopher Burke, Wellhead coloring book)- Develop speaker's bureau for HCWEC in 2006

VWI WHP

Recent Initiatives

- Maintain potential Source File-
 - Turn on Turn off report
 - Field Observations



field 5 of 13
Act Desc

Misc Well Disconnected Left to RRR
594

field 5 of 13
Act Desc

field 5 of 13
Act Desc

Misc Well Disconnected Left to
594

field 5 of 13
Act Desc

Turn on- Turn offs of PCS Legacy Sites

- Send out the welcoming committee
- Provide Education
- Update the PCS file

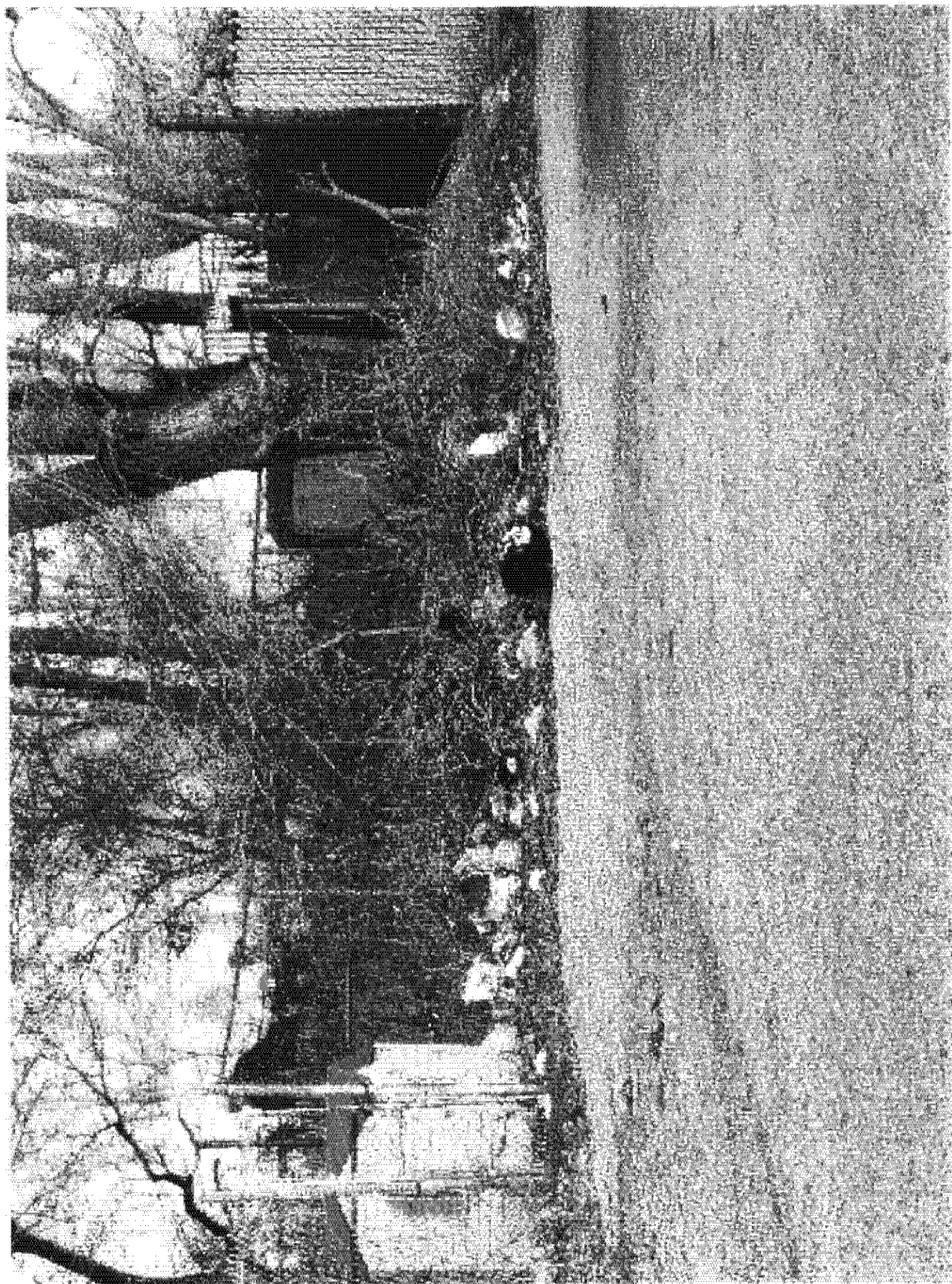
Training for Field Personnel (Dec '04) to help Monitor activities in the well field

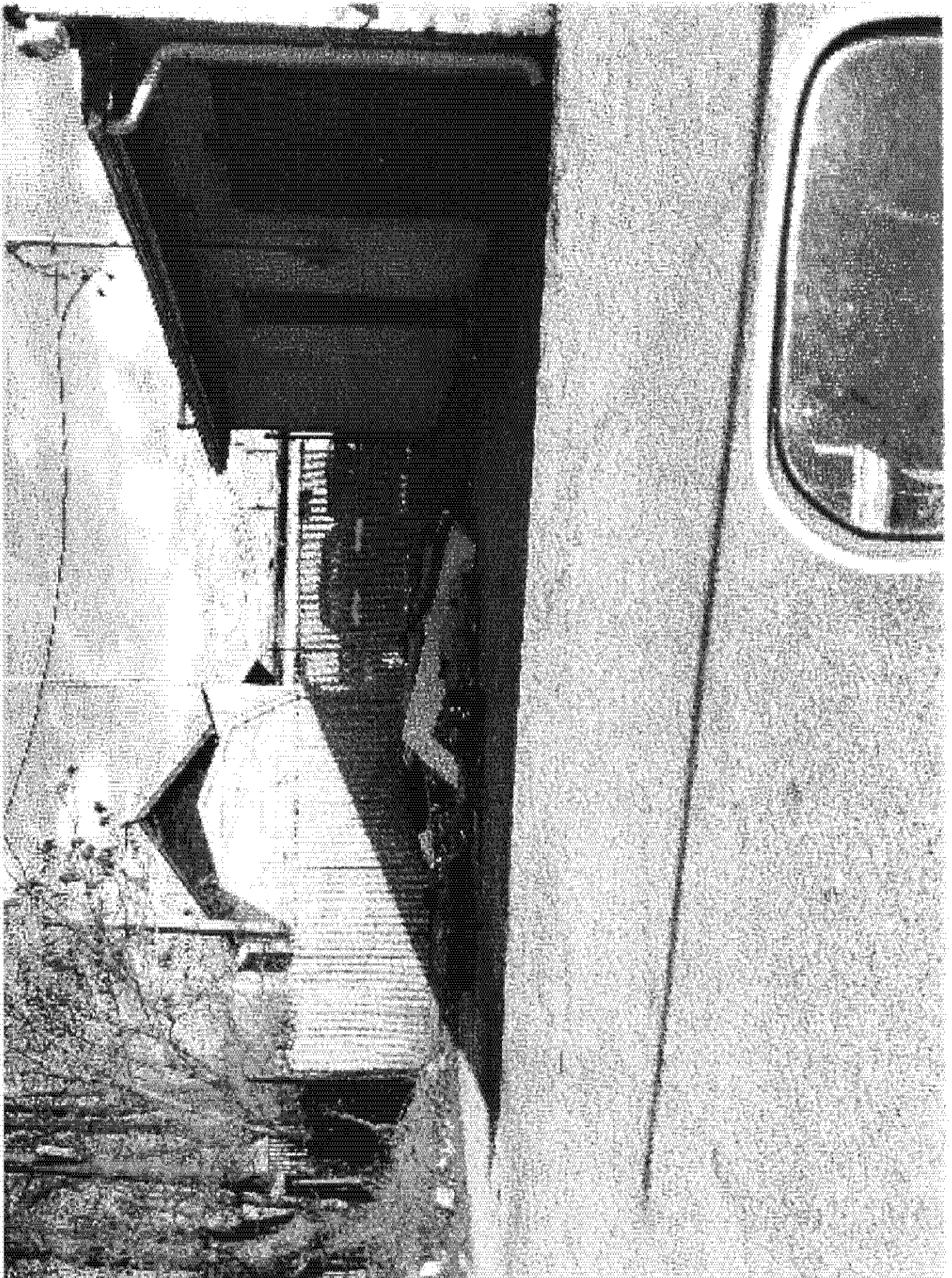
Facility Types

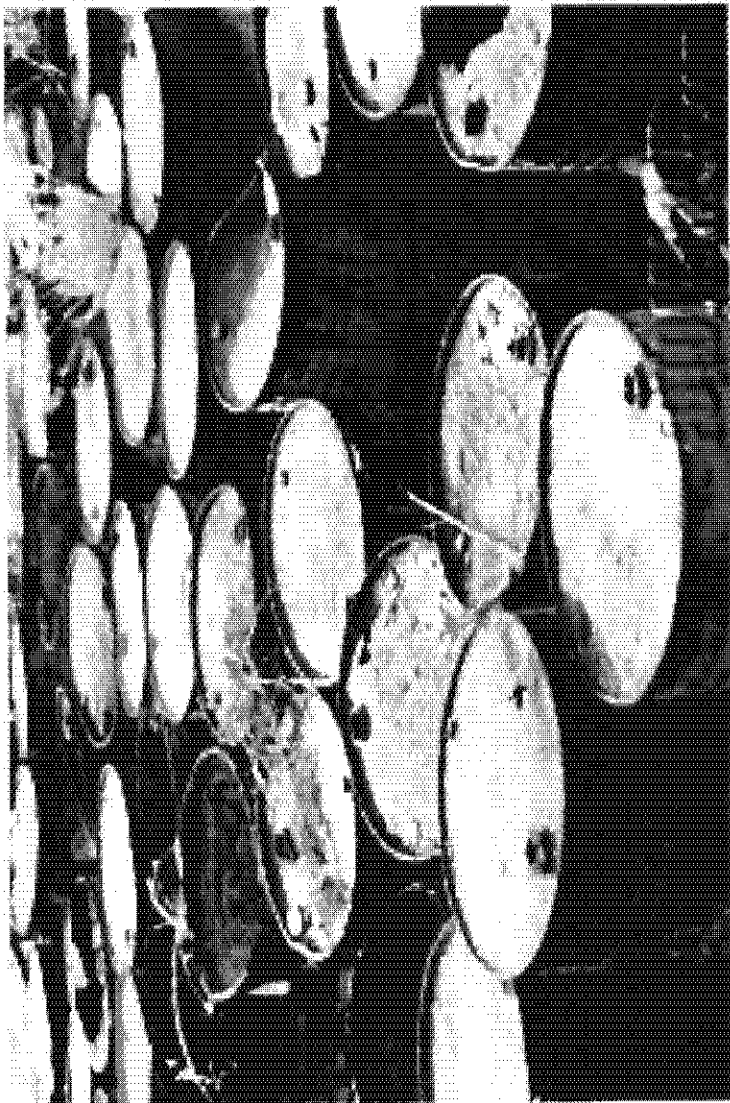
- Commercial/industrial facilities
- Maintenance and body shops; gas stations
- Dry cleaners
- Small metal working shops
- Small residential/commercial businesses
- Other small to medium businesses that use chemicals and generate wastes

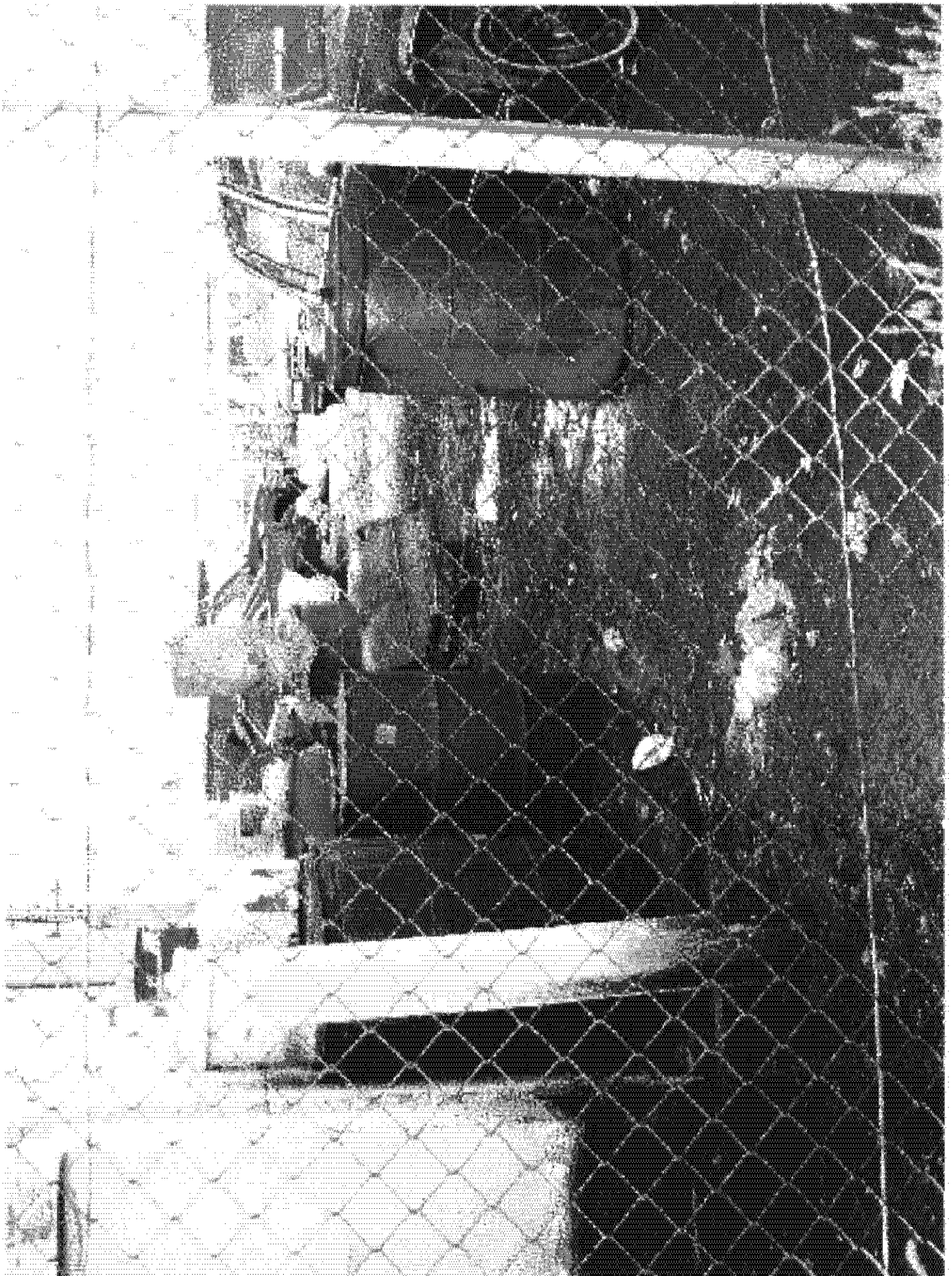
Indicators for Concern

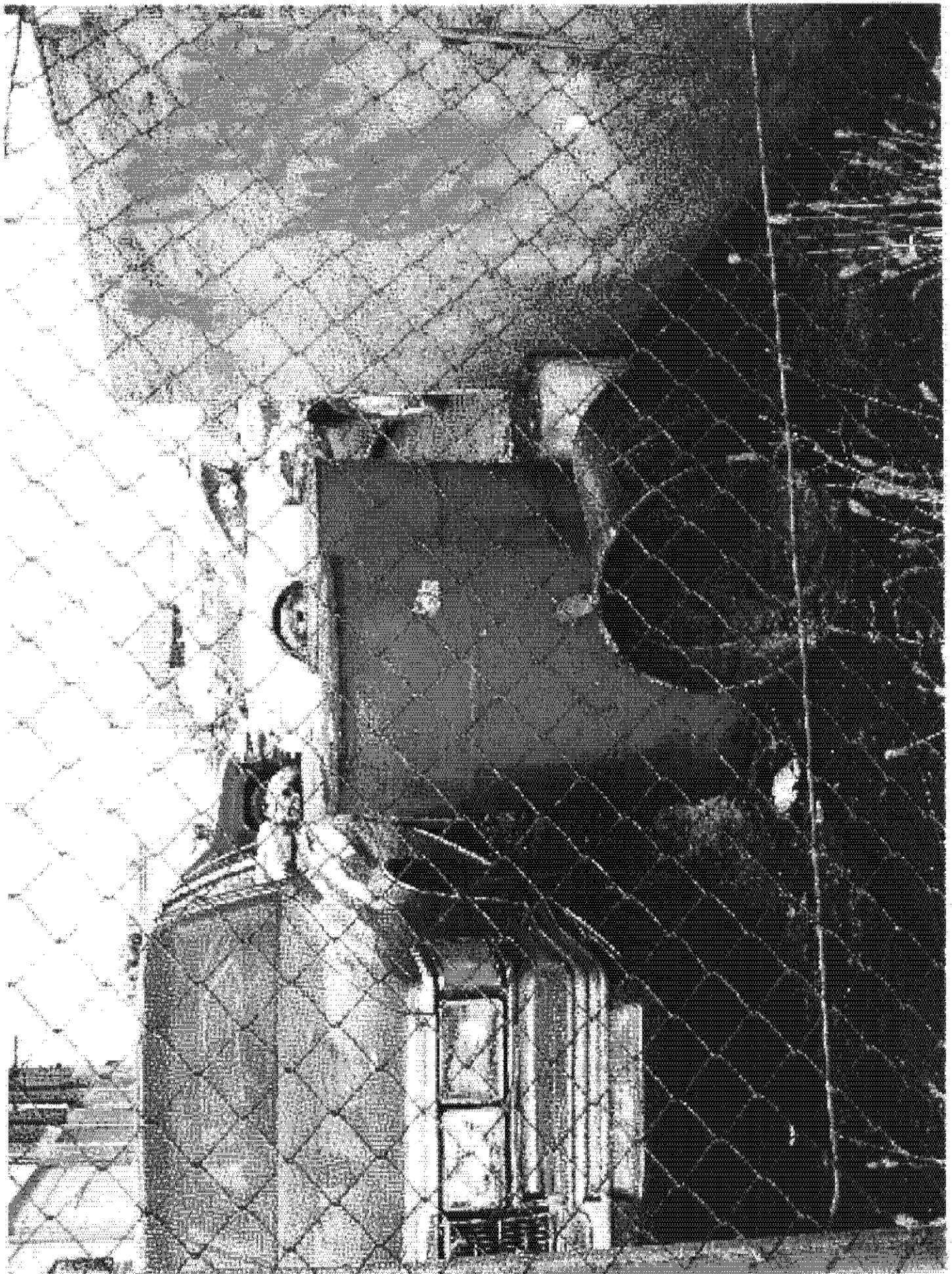
- Observations of waste storage outside of buildings.
- Drums, containers, tanks
- Evidence of spills: oils, liquids, colored staining on ground
- Evidence of poor housekeeping: lots of old equipment, debris, junk, barrels, abandoned cars, overflowing trash dumpsters.











053032598

WO# 0399598
 WO Desc TURN ON CUST CHG 01
 Action Code 0-Misc
 Rct Code 310
 Rct Desc Misc Pot Contain Review Pr
 CC Category 0-Misc
 Cond Code 650
 Cond Desc Misc Pot Contain Outdoor
 Address
 Updated ☒
 Comments

End < > << >> <<< >>>

Field 5 of 13
 Rct Desc

Field 8 of 13
 Cond Desc

Field 8 of 13
 Cond Desc

Misc Pot Contain Review Performed

End < > << >> <<< >>>

Misc Pot Contain Rflood Equip

End < > << >> <<< >>>

Misc Pot Contain Spill Evidence

End < > << >> <<< >>>

Wellfield Business Observation Checklist

Facility: _____ Date: _____
 Address: _____ Time: _____

Business Category

- ☐ Dry Cleaning ☐ Auto Repair/Service ☐ Other Industrial
☐ Vehicle Refueling ☐ Construction Site ☐ Other _____

Wellfield Protection Area

- ☐ Riverside Wellfield
☐ Fall Creek Wellfield
☐ Perry Wellfield
☐ Ford Road Wellfield
☐ East Wellfield
☐ South Wellfield
☐ Harbour Wellfield
☐ White River Wellfield
☐ Harding Wellfield

Observations

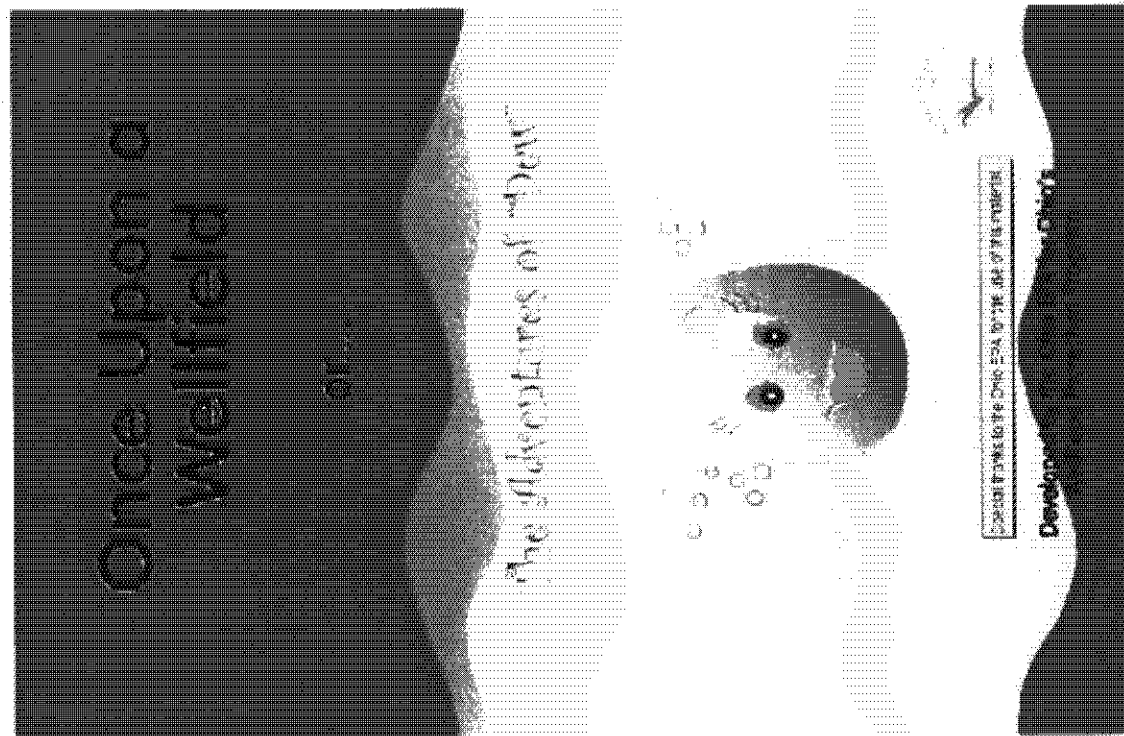
- ☐ Outdoor Chemical Storage
☐ Outdoor Equipment Storage
☐ Evidence of Spills (Sheets/Stains)
☐ Debris/Trash/Dumping
☐ Other _____

VWI WHP

Recent Initiatives

- Maintain potential Source File-
 - Turn on Turn off report
 - Field Observations (Provide voluntary assistance, Identify problematic businesses)
- Education-
 - In Hamilton County (Harbour) - 2005 Developed Industrial Brochure, and Wellhead coloring book, both for distribution in 2006





Protecting
the water
you drink

Protecting the business
an industry

















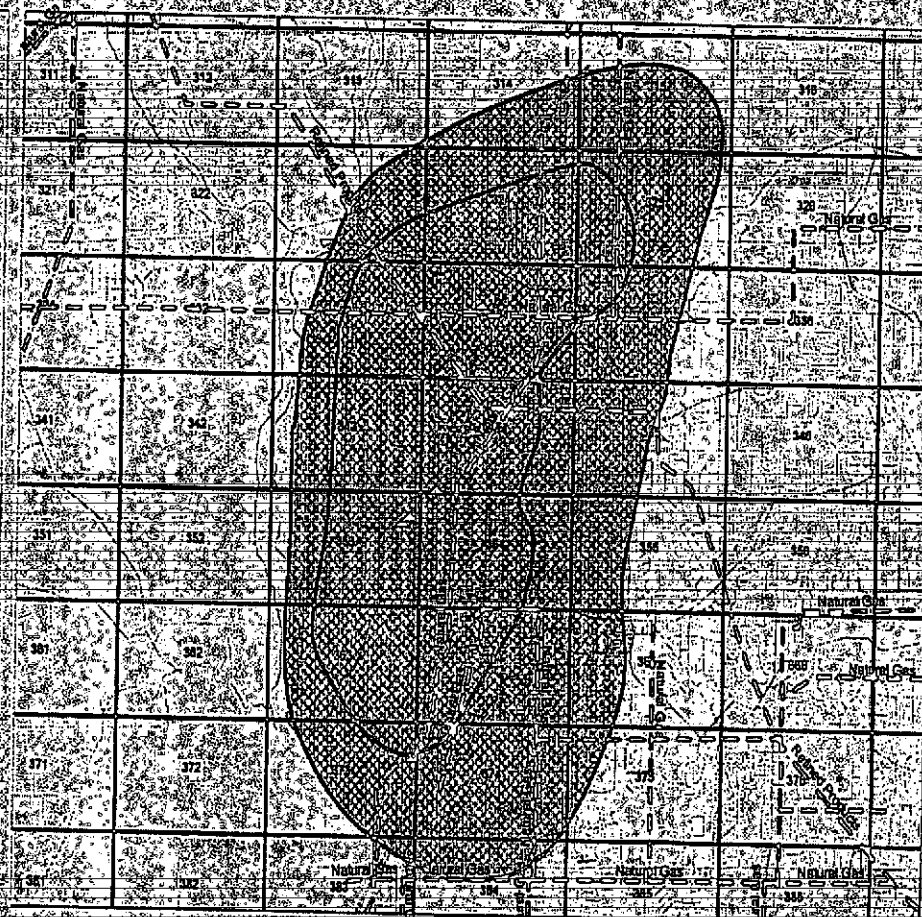
What can you John Q Citizen Do?

- Keep your property clean, properly storing and disposing of chemicals (don't flush chemicals down toilets, or dump chemicals)
- If you have a septic system, have it inspected and serviced regularly
- Read labels and follow directions on all chemicals, fertilizers, pesticides, and hazardous products you use.
- Discuss the importance of wellhead protection with your neighbors

SWF wellhead protection area- Pipelines

Exhibit shown is from Mapguide application. Pipeline (dashed-line) has labels which when selected display a tag or label. The tags correspond to data in pipeline database dedicated to documenting natural gas and petroleum pipelines. Pipeline attributes, location, and ownership is maintained in the database.

System	
	Project Status
	INSERV
	CONSTRC
	SECRST
	UNK
	No Record
Roads	
	CL
Majority	
	Serv
	Statord
	Water
	PIPELINE
	WellHead
Map Grids	
	DRAP
	Distribution Number



SCALE 1: 88,190



Pipeline listing in Wellfields

(tag field corresponds to lines shown in Mapguide database)

TAG	PARCEL I	LOTNUM	STNUM	DIR	STNAME	SUFFIX	CITY	STATE	ZIPCODE	TOWNSHIP	Pipe Length	Pipe Type	Pipe Size	Pipe Class	Owner
1332050	5004846		5320	S	BELMONT	AVE	INDIANA POLIS	IN	46217	PERRY	12325.28	Natural Gas	20	Intrastate	Citizens Gas and Coke Utility
1332367	5023480		1750	W	EPLER	AVE	INDIANA POLIS	IN	46217	PERRY	12325.28	Natural Gas	20	Intrastate	Citizens Gas and Coke Utility
1332392	5026666		1780	W	EPLER	AVE	INDIANA POLIS	IN	46217	PERRY	12325.28	Natural Gas	20	Intrastate	Citizens Gas and Coke Utility
1332431	0		0		UNKNOWN	N	INDIANA POLIS	IN	46217	PERRY	12325.28	Natural Gas	20	Intrastate	Citizens Gas and Coke Utility
1332437	5026667		2000	W	EPLER	AVE	INDIANA POLIS	IN	46217	PERRY	12325.28	Natural Gas	20	Intrastate	Citizens Gas and Coke Utility
1332453	5035339		1745	W	EPLER	AVE	INDIANA POLIS	IN	46217	PERRY	12325.28	Natural Gas	20	Intrastate	Citizens Gas and Coke Utility
1356447	5041450	132	6356		MONTEO	DR	INDIANA POLIS	IN	46217	PERRY	6388.273	Natural Gas	12	Intrastate	Citizens Gas & Coke Utility
1145428	5004458		6909		S LANDING	LN	INDIANA POLIS	IN	46217	PERRY	6388.273	Natural Gas	12	Intrastate	Citizens Gas & Coke Utility
1332516	5005815		5706	S	CONCORD	ST	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1332596	5005405		3800	W	SOUTHPORT	RD	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1332840	5005407		6840	S	TIBBS	AVE	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1332901	5031520		6950	S	TIBBS	AVE	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1332909	5001275		3125	W	SOUTHPORT	RD	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1333138	5037089	61	3104		STILLCREEK	EST LN	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1333139	5037088	60	3112		STILLCREEK	EST LN	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1333143	5037090	62	3048		STILLCREEK	EST LN	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1333150	5037087	59	3118		STILLCREEK	EST LN	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1333154	5037091	63	3040		STILLCREEK	EST LN	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1333182	5037084	56	3103		STILLCREEK	EST LN	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1333185	5037083	55	3047		STILLCREEK	EST LN	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1333191	5037082	54	3037		STILLCREEK	EST LN	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
1333200	5037081	53	7332		COPPERWOOD	DR	INDIANA POLIS	IN	46217	PERRY	27702.77	Refined Products	14	Interstate	Texas Eastern Transmission Corp
					STILLCREEK		INDIANA					Refined			

West / Noblesville / Zionsville

14

9916842

Book 426 Page 0712

Cross-Reference

RECORDS FILE NO.

10/56
09

These water and easement rights and restrictions encumber real estate that does not lie within a subdivision. The deed by which the encumbered real estate was most recently transferred is recorded in Book Number 288, Page 130 in the office of the Recorder of Morgan County, Indiana.

106

GRANT OF WATER AND EASEMENT
RIGHTS AND RESTRICTIONS AND SERVITUDES AGREEMENT

James K. Coleman Irrevocable Trust by its Trustee ("Owner"), for the sum of One Dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged, hereby GRANTS, TRANSFERS and CONVEYS to Indianapolis Water Company, a corporation organized and existing under the laws of the State of Indiana, and its successors and assigns ("IWC"), the water rights, easements, restrictions and servitudes hereinafter described in respect of the real estate described in Exhibit "1" hereto ("Real Estate") and the related aquifer beneath it. The parties agree that such rights, easements, restrictions and servitudes ("Rights") shall be durable, perpetual and run with the Real Estate and inure to the benefit of IWC and its successors and assigns and shall include the following:

1. IWC shall have the right at any time and from time to time to enter upon the Real Estate (1) to install production and observation wells, install pumps, pipes and related appurtenances; (2) to use, maintain, repair and replace, at its election, the production and observation wells, pumps, pipes and related appurtenances to be installed in or on the Real Estate; and (3) to pump, remove, own and dispose of through its water utility system water from the aquifer. IWC will be limited to six (6) production well sites (collectively, the "Wells") to be located near the southern property line as approximately

depicted on Exhibit 2 attached hereto. No permanent development or farming will be permitted within a 100' radius of the Wells. The location of the Wells shall be described by field survey after installation. The cost of the survey will be the sole expense of IWC.

2. IWC shall have an easement of reasonable ingress and egress at all times for vehicles and pedestrians upon, across and through the Real Estate, in order to provide ready access to the Wells for its personnel, materials and equipment, as approximately depicted in Exhibit 2, or in a similar plan mutually agreeable to both parties. In addition, IWC is hereby granted a permanent easement twenty five (25) feet in width for water pipes to and from the Wells. The easement for the water pipes may be the same as the easement for ingress and egress. In addition to the ingress/egress and permanent water pipes easements, IWC is hereby granted a temporary construction easement to a width of twenty five (25) feet for the construction of the water pipes, Wells, and other equipment. The temporary easement will revert back to the Owner following construction. The location of the permanent easements, temporary easements and ingress/egress easement shall be described by field survey after installation of the Wells and water pipes, such survey will be at Purchaser's expense.

3. The Real Estate shall not be used by or for industrial, commercial or other business purposes of a type which stores, uses, produces or otherwise permits to be located on the premises, noxious materials or materials which might cause contamination or pollution of the aquifer or interfere with the proper use, functioning or maintenance of the Wells for water supply purposes. No waste, oil or other deleterious materials shall be discharged, and no trash, garbage or debris shall be dumped in or upon the Real Estate or aquifer (unless



March 7, 2007

Mr. Craig Johnson, Principal
Centre Properties
9333 Meridian St.
Indianapolis, IN 46260

RE: Forestation of Featherstone Trust Tract, Hamilton County, Indiana

Dear Mr. Johnson:

This letter is in response to a request to Veolia Water Indianapolis (VWI), the contracted operator of the Indianapolis Water (IW) utility, to stake the location of the IW future well sites and collection line on the Featherstone Trust Tract, Hamilton County, Indiana. Mr. Tony Anderson of Dillon Construction Company contacted VWI on January 9, 2007, about forestation plans for the Featherstone Trust tract located at approximately 146th and Allisonville Road. Mr. Anderson indicated that he is installing approximately 5000 trees on the site for the preservation trust.

In 1997 The Indianapolis Water Company, the predecessor utility to the Indianapolis Water utility entered into an agreement with the Featherstone Trust to grant to the utility water and easement rights on the Featherstone property. In accordance with the agreement, instrument 200200020323, the utility is permitted to install six (6) well sites and a collection line. The agreement granted a 100' setback from the wells, and a 25' setback for the well collection line, in addition to reasonable ingress and egress to access and maintain its assets. An approximate location of the assets was given as exhibit 2 of the agreement. The exact location of the assets, per the agreement is to be identified through a field survey following their installation.

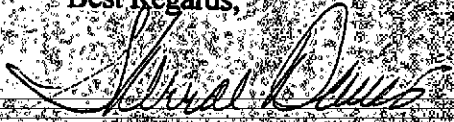
In establishing the exact location of wells some extensive field investigation is required to determine where there is the best yield, what distance is necessary between the wells to avoid interference, and to test for water quality. This assessment is typically performed when the well field is being developed. Mr. Anderson to facilitate the commencement of forestation efforts on the property has requested of the utility to identify the location of its assets in an attempt to avoid planting conflicts. Indianapolis Water is amenable to staking the proposed sites identified in exhibit 2, contingent upon the understanding that final determination for location of the wells will come as a result of the future field work that will be done when the well field is developed, and as such may require the removal and replanting of some trees at the utility's cost.

The issue of forestation and locating the wells was previously raised in 2001 with then Indianapolis Water Company. In a letter dated October 26, 2001 from the utility to a Mr. Russ Romme, Director, NEPA/Natural Resources Group the utility suggested that allowing a 35 foot setback from the proposed well line location for construction, which is within the construction easement language in the easement document might minimize, albeit not completely remove the possibility for removal and replanting trees when the wells and line are finally sited and installed.

VWI on behalf of Indianapolis Water is prepared to stake the assets so that your planting can commence, but has recommended to the utility that it would be prudent to have a formal letter of understanding prepared and signed by a representative of the Trust and the Utility for the tree planting and the installation of the wells and collection line before the tree planting begins. To that end the utility has prepared and attached for your review and signature an agreement. Upon the return of the signed agreement, VWI will move to contact Mr. Anderson and schedule the staking of the utility's proposed assets.

If you have questions or would like to further work through some details of the attached agreement, please feel free to contact Sherrae Davis, Asset Manager for the utility at 317-263-6370 or the Utility's legal representative Attorney Jonathan Bryant at 317-263-6387.

Best Regards,



Sherrae Davis

**NEW WELL SITE SURVEY**

State Form 50886 (R4/3-06)

Indiana Department of Environmental Management
Office of Water Quality

Date Submitted: _____

INSTRUCTIONS: Complete all information and mail two (2) copies to: IDEM, OWQ, DWB, Field Inspection Section
100 N. Senate Avenue, MC: 66-34
Indianapolis, IN 46204-2251

SECTION I - FOR ALL PUBLIC WATER SUPPLY SYSTEMS

1. System Name (Facility): Indianapolis Water	2. System PWSID number: IN 5249004
3. Mailing Address: 1220 Waterway Boulevard, Indianapolis, Indiana 46202	
4. City of Facility: Indianapolis	5. County of Facility: Marion
6. System Contact Person: Doug Dusbiber	7. Telephone number: (412) 809 - 6718
8. Type of Application: <input type="checkbox"/> New System Well <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Additional Well	
9. Provide the location of the proposed well site in UTM or Lat/Long coordinates. (Please provide this information on a separate sheet of paper in your packet.)	

SECTION II - FOR COMMUNITY PUBLIC WATER SUPPLY SYSTEMS
By 327 IAC 8-4.1 and 327 IAC 8-3.4 all community systems must submit:

	Location in Packet	IDEM Use Only		
		Phase I	Phase II	Phase III
1. A USGS topographical map showing the areas surrounding the well and proposed well site.	Figure-1 ✓			
2. A map drawn to a scale between 1"=400' and 1"=1,000', showing: not to scale - 1"	Figure-2			
A. Ownership and any easement boundaries of the proposed well site.	Figure-2 ✓			
B. The location of the proposed well.	Figure-2 ✓			
C. The isolation area. 100' ?	Figure-2			
D. The wellhead protection area. ? Fig 3?	Figure-2			
3. A summary of the aquifer system used by the proposed well where available.	Page-2			
4. An inventory of potential sources of contamination within a 3000' radius of the proposed well.	Table-1			
5. A schedule for the development of a Phase I Wellhead Protection Plan.	Page-3			
6. Driving directions to the proposed well site.	Page-3			

SECTION III - FOR NONCOMMUNITY PUBLIC WATER SUPPLY SYSTEMS
By 327 IAC 8-3.4 all noncommunity systems must submit:

1. A map drawn to a scale showing: not to scale - 1"	Figure-2			
A. Ownership and any easement boundaries of the proposed well site.				
B. The location of the proposed well.				
C. The isolation area.				
D. An inventory of potential sources of contamination within a 1000' radius of the proposed well.				
2. The name of the USGS topographical map(s) for the proposed well site.				114
Summary of the aquifer system used by the proposed well where available.				115
4. Driving directions to the proposed well site.				116

MAR-21-2007 15:11 FROM: ORTMAN, DRILLING 7654598750

TO: 14128096711

P. 3/3

W.O.#07-10 RR3



RECORD OF WATER WELL

State Form 35880 (R5/2-04)

Driller—Mail complete record in 30 days to:
 INDIANA DEPT. OF NATURAL RESOURCES
 Division of Water
 402 W. Washington St., Rm. W284
 Indianapolis, IN 46204-2841
 (877) 828-3788 toll-free or (317) 232-4160

County Permit

Number

DNR Variance

Number

Include if applicable

Fill in completely

WELL LOCATION

County where drilled Hamilton	Civil township name Noblesville	Township number (N-S) T18N	Range number (E-W) R4E	Section Sec 14
Driving directions to the well location (include trip origin, street & road names, intersecting roads, and compass directions). Show well address below and subdivision in box at lower right. There is space for a map on the reverse side. 146th River Road north west of intersection on north west corner of pond			UTM Northing 4428775N	
			UTM Easting 681802E	
			Datum <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83	
			GPS used	
			Subdivision name & lot number (if applicable)	
Well address:				
If drilled for water supply, this well is: <input type="checkbox"/> First well on property <input type="checkbox"/> Replacement well <input type="checkbox"/> Additional well on property <input type="checkbox"/> Dry hole				

OWNER - CONTRACTOR

Veolia	Telephone Number
Address (number and street, city, state, ZIP code)	
Building contractor—name	Address (number and street, city, state, ZIP code)
	Telephone Number
Drilling contractor—name	Address (number and street, city, state, ZIP code)
	Telephone number
Equipment operator—name Eric H. & Brant B	License Number 1569, 1961, 330
	Date of well completion 2/1/2007

CONSTRUCTION DETAILS

WELL LOG

Use of well	Drilling method	Type of pump	FORMATIONS	Type of material	From (feet)	To (feet)
<input type="checkbox"/> Public supply	<input type="checkbox"/> Rotary	<input type="checkbox"/> Submersible	gravely brown clay		0	7
<input type="checkbox"/> Industrial / commercial	<input type="checkbox"/> Reverse rotary	<input type="checkbox"/> Shallow well jet	gravely brown & gray clay mix		7	10
<input type="checkbox"/> Livestock	<input type="checkbox"/> Cable tool	<input type="checkbox"/> Deep well jet	fine-medium gravel w/ fine-medium sand		10	35
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Jet	<input type="checkbox"/> No pump installed	medium-coarse gravel w/ fine-med. Sand		35	47 1/2
<input type="checkbox"/> Monitoring / environ.	<input type="checkbox"/> Bucket / bore	Other: _____	gray clay		47 1/2	56
<input type="checkbox"/> Test hole	<input type="checkbox"/> Auger (including HSA)	Pump depth setting (feet)	fine-medium gravel w/ fine-medium sand		50	60
Other: _____	<input type="checkbox"/> Direct push		medium-coarse gravel		60	69
Total depth of well (feet) 70	Borehole diameter (in.) 8"	Gravel pack inserted <input type="checkbox"/> Yes <input type="checkbox"/> No	white limestone		69	72
Casing length (feet) 50+3	Casing diameter (in.) 8"	Casing material <input type="checkbox"/> PVC <input type="checkbox"/> SDR26 <input type="checkbox"/> Steel	brown limestone		72	74
Screen length (feet) 20	Screen diameter (in.) 8"	Screen material <input type="checkbox"/> PVC <input type="checkbox"/> SSWW <input type="checkbox"/> Steel				
Screen slot size 0.05	Water quality (clear, odor, etc.)					

WELL CAPACITY TEST

Test method	Static level	Galions per min.	Hours tested	Drawdown (change in level)
<input type="checkbox"/> Air	below surface			
<input type="checkbox"/> Bailing				
<input type="checkbox"/> Pumping	20 feet	350+		

GROUTING

GRAVEL PACK

Grout material	Grout depth from to	Material	Depth filled from to
Proseal	40 to 0	American	70 to 40
Installation method	No. of bags used	Installation method	Quantity
Tremie	14		250 gallons

Additional space for well log and comments on reverse side

I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.

Signature of drilling contractor or authorized representative

MUST BE SIGNED OR STAMPED

Date

2-5-07



Figure 1
Topographic map showing White River North
proposed wells, property boundary
and wellhead protection areas



Figure 3 Aerial photograph map showing proposed wells, proper wellhead protection EDR reported

Table 1
Indianapolis Water
West Southern Wellfield Development

Potential Sources of Contamination

Site ID	Facility Name	Address	Site Description	Permit	Permit Type	Types of Contaminants	Operational Status	Listing Database	EPA ID Number
1	Southwestern Proposed Wells								
2	Winding Way Mobile Home Court	14740 River Rd., Noblesville, IN 46050	Mobile Home Park	MSOP/ISSCA 057-11854-00053	PWS	Not Applicable	Inactive	FINDS	0004485018
3	US Aggregates, Inc.	15215 N. River Rd., Noblesville, IN 46050	Not Available	INDSP/ISSCA 057-11854-00053	Air Emissions	Not Applicable	UST previously out of service	UST	0001801909
4	Mar Zane, Inc. Plant 10	15215 N. River Rd., Noblesville, IN 46050	Asphalt Paving	FESOP F097-14879-13246	Exempt SOG	Small Quantity Haz. Waste	Active	RCRA-SQG	0001571129
5	E & B Paving Inc.	15215 N. River Rd., Noblesville, IN 46050	Asphalt Paving	Not Applicable	Air Emissions	Not Applicable	Not Available	FINDS	0004485091
6	Not Available	15215 N. River Rd., Noblesville, IN 46050	Not Available	Not Applicable	Not Applicable	Insufficient Information	Not Available	ERNS	2005314227
7	Shelly & Sands, Inc.	15215 N. River Rd., Noblesville, IN 46050	Not Available	Not Applicable	Not Applicable	Not Available	Not Available	PHDS	0005949900
8	Proble Group, Inc.	15215 N. River Rd., Noblesville, IN 46050	Not Available	Not Applicable	Not Applicable	Not Available	Not Available	PHDS	1005617424
9	Not Available	15215 N. River Rd., Noblesville, IN 46050	Not Available	Not Applicable	Not Applicable	Not Available	Not Available	IN Soils	3106186212
10	Gardian Phase	7302 E. 46th St., Noblesville, IN 46050	Mobile Home Park	IN322907	PWS	Not Applicable	Active	FINDS	1005511010
11	Hamilton Estates	7429 E. 46th St., Noblesville, IN 46050	Mobile Home Park	INR000103333	Exempt SOG	Small Quantity Haz. Waste	Active	RCRA-SQG	0007020758
12	Renner's Brook Assoc.	8100 E. 46th St., Noblesville, IN 46050	Auto Body Repair	Not Applicable	Not Applicable	Small Quantity Haz. Waste	Active	IN Soils	INR000103333
13	Not Available	15285 Cherry Tree Rd., Noblesville, IN 46050	Spill Reported 8/28/2004	Not Applicable	Not Applicable	Small Quantity Haz. Waste	Not Available	IN Soils	0004487181
14	Cherry Tree WWTP	15405 Cherry Tree Rd., Noblesville, IN 46050	WWTP	Not Applicable	Not Applicable	Not Applicable	Uncertain	FINDS	0004487181

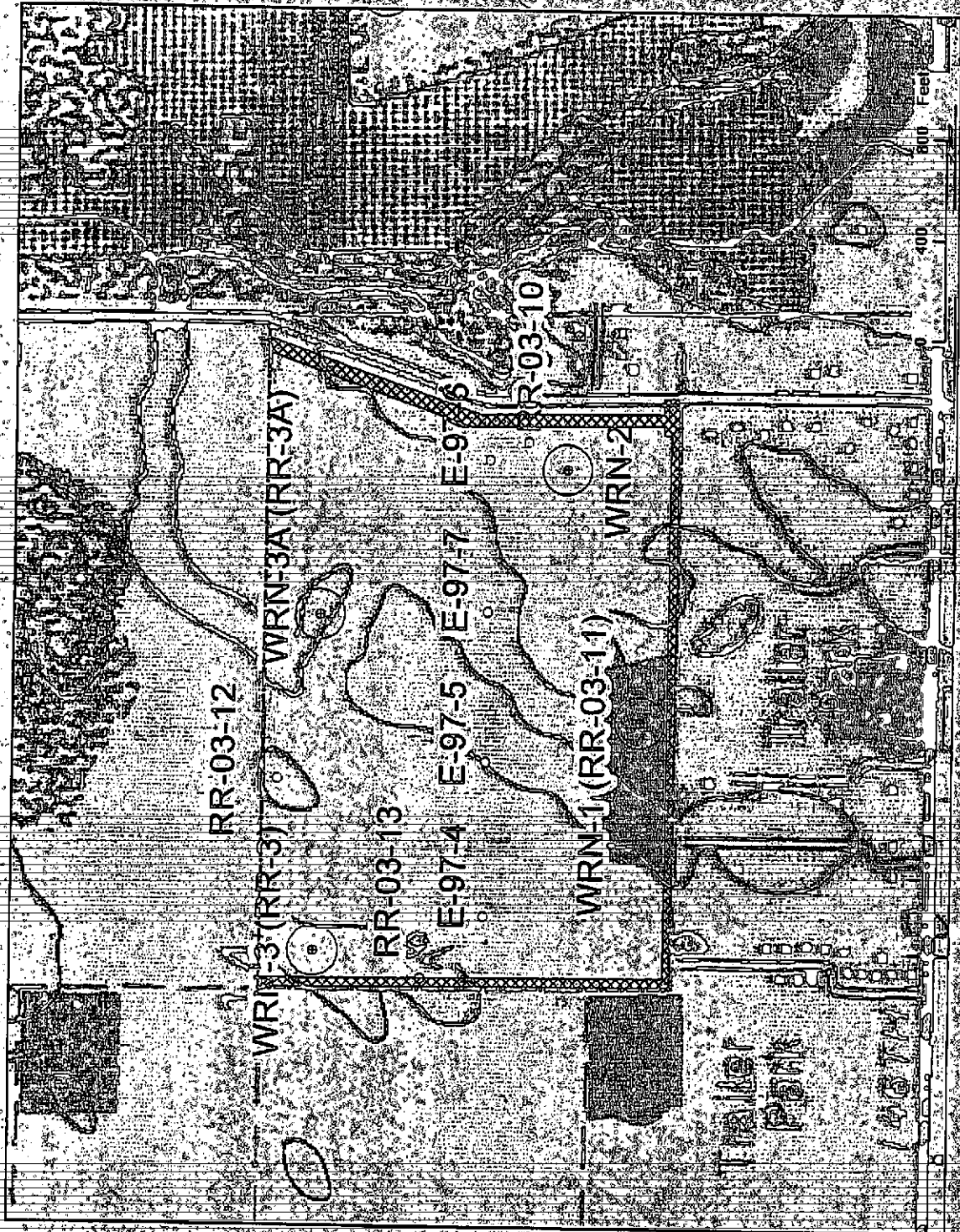


Figure 2
Topographic map showing White River North
proposed wells, property and easement boundaries
and sanitary set back areas

Task for Well Inspections

Weekly Well Inspection

Instructions

Use the Well Inspection Report to document the following information:

Wellfield

Well #

Week #

Date

Time

Order in Rotation

Static Level - If pump is not operating

Pumping Level - If pump is operating

Discharge Pressure - If pump is operating

Hour Reading

Comments/Other Observations

Inspector

Task for Well Inspections

Monthly Well Inspection

Instructions

Use the Well Inspection Report to document the following information:

Wellfield

Well #

Week #

Date

Time

Order in Rotation

Static Level

Pumping Level

Drawdown

Discharge Pressure If pump is operating

Hour Reading

Comments/Other Observations

Inspector

Note: Determining drawdown-- Before obtaining water levels the inspector must wait at least 5 minutes between on/off or off/on conditions to allow for water table stabilization

Task for Well Inspections

Quarterly Well Inspection

Instructions

Use the Well Inspection Report to document the following information:

Wellfield

Well #

Pump Suction Depth

Critical Pumping Level

Designed Yield GPM

Week #

Date

Time

Order in Rotation

Static Level

Pumping Level

Drawdown

Actual Yield GPM

Specific Capacity

Discharge Pressure

Hour Reading

Visual Inspection Checklist

Comments/Other Observations

Inspector

Note: Determining drawdown—Before obtaining water levels the inspector must wait at least 5 minutes between on/off conditions to allow for water table stabilization.

the surface of the South Well Field Land. IWC shall have the right at any time and from time to time to pump, remove, own and dispose of water from the Aquifer and, for that purpose, to install on and in the South Well Field Land and thereafter operate, maintain, repair and replace, at its election, production and observation wells, lines, equipment and other facilities deemed necessary or appropriate by IWC for such pumping and removal of water from the Aquifer for delivery to its system or for the observation of ground water located in or about the South Well Field Land (such wells and related facilities being referred to hereinafter collectively as the "Wells").

2. IWC shall have an easement of reasonable ingress and egress at all times for vehicles and pedestrians upon, across and through the South Well Field Land, in order to provide ready access to the Wells for its personnel, materials and equipment. Around each of the Wells that IWC develops there shall also be a wellhead protection zone for a distance of one hundred (100) feet in all directions from the wellhead on the property. There shall be no construction permitted in any such wellhead protection zone, including, but not limited to, the construction of any golf green or fairway or other facility.

3. The South Well Field Land shall not be used by Wellingshire for any industrial, commercial or other business purpose of a type which stores, uses, produces or otherwise

permits to be located on the premises noxious materials or materials which might cause contamination or pollution of the Aquifer or interfere with proper use, functioning or maintenance of the Wells. No waste, oil or other deleterious materials shall be discharged, and no trash, garbage or debris shall be dumped in or upon, the South Well Field Land or the Aquifer. Nor shall any septic or waste disposal system be installed which discharges any effluent or substance of any kind into, under or upon the South Well Field Land. No wells shall be installed by Wellingshire in or on the South Well Field Land. The South Well Field Land shall not be used in any manner which causes or might cause contamination or pollution of the Aquifer or interfere with proper operation, functioning, or maintenance of the Wells. No fertilizers, pesticides, agrichemicals, or other substance may be applied to growing crops, lawns, gardens, or other landscaping which has not been approved by IWC and Purdue University or the Office of the Indiana State Chemist, for application in, on, or near a wellfield. The South Well Field Land shall not be excavated or mined without the written approval of IWC. Such approval will be considered only after the submission of a plan which provides for the protection and preservation of the Wells and the Aquifer. If the South Well Field Land is excavated or mined and a lake or inundated area results, IWC shall own the water in such lake or inundated area and may withdraw water therefrom without regard to the water



MCWEC Progress Update

March 11, 2003

- o Three New Detailed-on-Site Assessments complete.
- o One New Detailed-on-Site Assessment scheduled for May.
- o At least 22 schools with students living in WFPAs.
- o At least 12 schools located within WFPAs.
 - o All 22 schools have been sent cover letters and have received follow-up callbacks regarding MCWEC presentations.
- o 18 New businesses have been identified. (Fall Creek and Riverside)
 - o 10 of the new businesses are on the CRTK database.
- o All facilities have received follow up calls under the new contract.

Status On Follow Up Calls Under This Contract

WFWA	Potential Remaining	Declined Assessments	Scheduled Assessments
South	56	19	1
Riverside	94	24	6
Speedway	3	0	0
Fall Creek	52	6	5
Geist	3	0	0
Ford Rd	1	1	0
Lawrence	0	0	0

AGENDA
McWEC
January 14, 2003
3:00 PM MIBOR

1. Approval of Minutes of November 13, 2002 meeting
2. Funding from the City (Check presentation)
3. Review Financial Statements
4. Create 2003 Budget
5. Report on Goode contract, and their progress since last meeting
6. Any "poster children" for technical Assistance
7. Finalize McWEC brochure
8. Status of new delineations
9. Report on public relations-radio/TV/and billboards
10. Hits on web site - 593 ^{LINKS} _{ITEM} (Martha Clarke → Callister)
11. Amos Brown show?
12. Report Groundwater Foundation annual meeting
13. Report to City/ County Council subcommittee
14. Other business
15. Next meeting? March 11, 2003?



Marion
County
Wellfield
Education
Corporation

WELLFIELD NEIGHBORHOOD PARTNER PROGRAM

FACT SHEET

[Home](#)

<u>What is MCWEC?</u>	<u>What is the Wellfield Neighborhood Partner Program?</u>	<u>What does it mean to be a Wellfield Neighborhood Partner?</u>	<u>How will the community benefit from this program?</u>	<u>What does my neighborhood do to become a Wellfield Partner?</u>	<u>Who do I contact if I have any questions?</u>
What is the Marion County Wellfield Education Corporation (MCWEC)?	MCWEC is a nonprofit corporation organized to educate the people of Marion County about the importance of groundwater used for our public drinking water supply. MCWEC seeks to inform businesses and residents about how they can protect groundwater from contamination. top of page				
What is the Wellfield Neighborhood Partner Program?	This is a program designed to make wellfield residents aware of how to prevent contamination from their homes. The message of this program is simple—we need to keep chemicals from getting on the ground, because these chemicals may seep into the ground and move into the groundwater we are drinking. top of page				
What does it mean to be a Wellfield Neighborhood Partner?	Wellfield Neighborhoods will be recognized throughout the community as a neighborhood that actively participates in educating their neighbors about wellfield protection. top of page				
How will the community benefit from this program?	Ideally, everyone benefits in this program because we are protecting ourselves by preventing contamination of our source of drinking water. Over a million people in and around Marion County drink water supplied from our wellfields every day. By becoming a wellfield partner, you help to keep a clean and safe supply of drinking water for our generation and generations to come. This program will only succeed if everyone - residents, businesses, water utilities, and local government work together. We can keep our drinking water safe. top of page				
What does my neighborhood do to become a	The process is simple and free. Invite MCWEC to a neighborhood meeting this year to educate residents plus, participate in one or more of the following educational activities:				

Wellfield Partner?	<p>Include a Wellfield Neighborhood Partner article in your newsletter (MCWEC can help you to write your own article or can provide one for you)</p> <p>Distribute our wellfield pamphlet to all residents in your organization's boundaries (MCWEC provides the pamphlets at no cost)</p> <p>Distribute a household hazardous waste checklist to help your neighbors learn how to prevent groundwater contamination through proper disposal methods (MCWEC provides the checklists at no cost)</p> <p>Other activities specific to your neighborhood's concerns about protecting our source of drinking water (MCWEC will partner with you to stimulate interest and coordinate resources)</p> <p>top of page</p>
Who do I contact if I have any questions?	<p>Marion County Wellfield Education Corporation (MCWEC) 111 Monument Circle, Suite 1950 Indianapolis, Indiana 46204 Phone (317) 464-2219 Fax (317) 464-2217 e-mail: MCWEC1@aol.com</p> <p>top of page</p>

5/19/2005

Little Cicero Creek Watershed Management Plan**1st Steering Committee Meeting**

May 19, 2005 10:00am-11:30am

Hamilton County Judicial Building, Room 1A

Purpose: Gather major stakeholders in an initial meeting to introduce contractors and project approach, initiate development of the Steering Committee, and set a date for the first public meeting.

Agenda

10:00am Welcome, housekeeping and introductions
Brief description of experience and interests

10:15 Project approach
Contract overview and roles
Project schedule
QAPP (sample sites, timing of sampling)

10:45 Steering Committee (StrCom)
Additional members
StrCom meeting dates & contact method

11:00 Next Steps
Date & agenda for 1st Public Meeting (June?)
Request for historical information & existing data

11:30am Adjourn

Local Sponsor:

Hamilton County Surveyor's Office

Robert Thompson, 317-770-8833, rct@co.hamilton.in.us

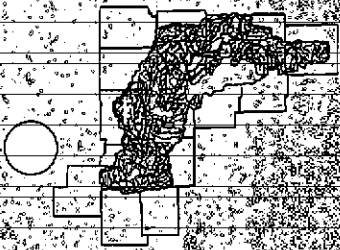
Contractors:

JFNew

Drew Bender, 317-388-1982, abender@jfnew.com

D.J. Case & Associates

Gwen White, 317-931-0908, gwen@djcase.com



UPPER WHITE RIVER WATERSHED ALLIANCE, INC.

Technical Committee Meeting
Wednesday, July 19th, 2006 @ 2:00 PM
Commissioners Conference Room 1-A
Judicial Building
One Hamilton County Square, Noblesville, IN

AGENDA

Welcome and Introductions - Kent Ward, Technical Committee Chair

Review minutes of April 19th, 2006

UWRWA GIS Project:

- Design and content of the Alliance web site-request for comments
- Identifying target user group(s) - who is currently using the web site and why
- Website Content-feedback and ideas for enhancement

Guide Lamp Trustee Projects update-Carl Wodrich

Other Business

Next Meeting Date

Davis, Sherrae**From:** Jill Hoffmann [jhoffmann@empowerresults.com]**Sent:** Tuesday, March 20, 2007 6:00 PM**To:** Voltz, Chuck; Jill Hoffmann; Lyn Crighton; Paul Amico; Sharon Adams; Davis, Sherrae; Sherr Winters; Shreen Wagley; Sky Schelle; Steve Holt; Summer O'Brien; Tami Grubbs; Tammy Lawson; Tdays; templin; Tim George; Tim Kroeker; Tim Method; Tom Hougham; Town of Cicero; vgriffin; Wade Amos; wae; Zach Wendling**Subject:** UWRWA Mtg Thursday

Hello Group,

Just a Reminder that the Upper White River Watershed Alliance will meet THIS THURSDAY at 2:30 at Veolia Water. We will meet in the conference room off the cafeteria. Veolia is located at 1220 Waterway Blvd in downtown Indy. Please join us whether you are an active member or just interested in learning about, or participating in, our efforts. We are hoping to rebuild a diverse, widespread membership and welcome your ideas.

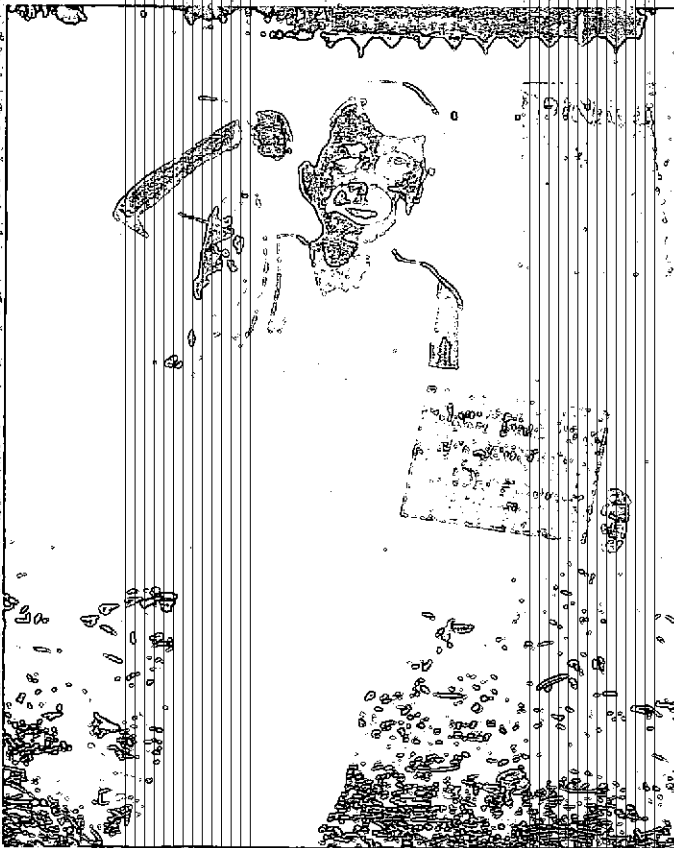
Agenda items include:

- o Technical presentation on our recent grant requests and new strategies for watershed management
- o Review of our recently developed draft strategic plan and associated discussion on committee structure and activities
- o Reports from local watershed coordinators on various projects in the region

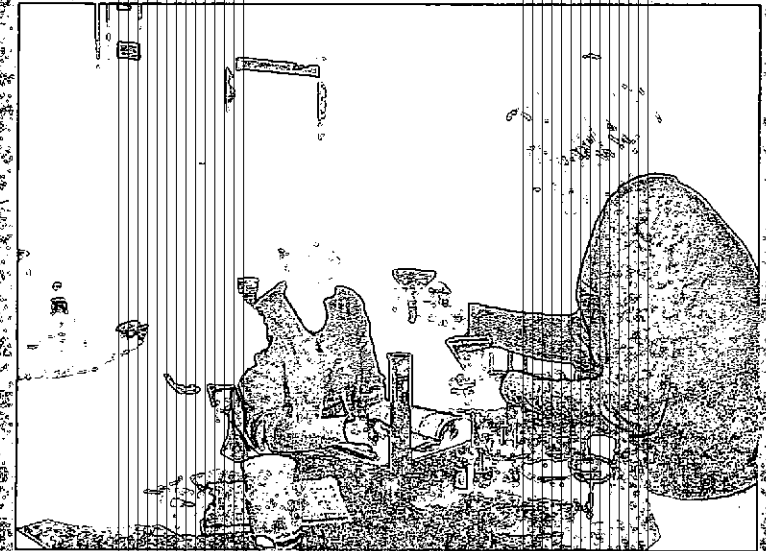
Hope to see you soon! Jill

3/29/2007

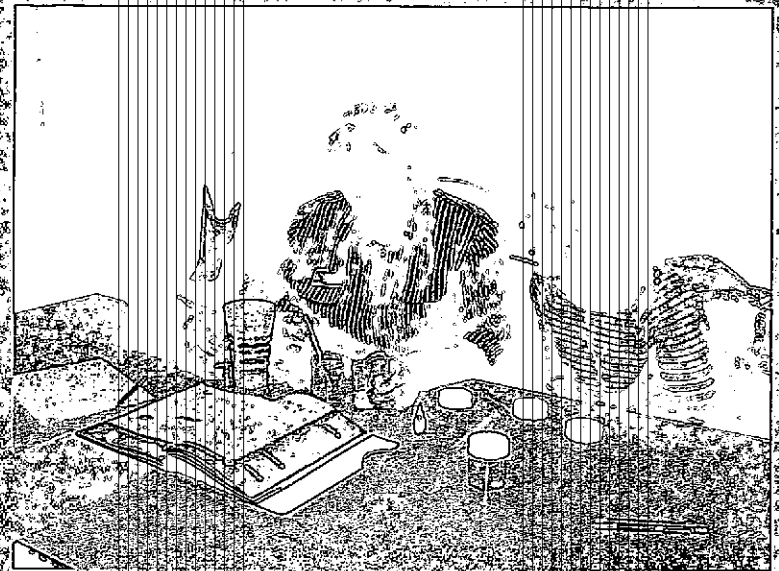
Sign welcoming fair goers to the "fishin' pond" for a real fishing experience

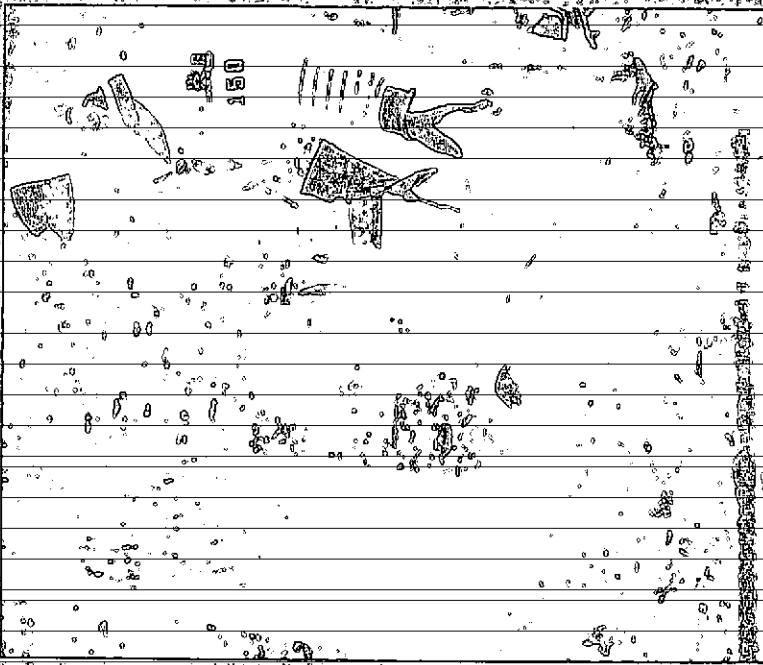
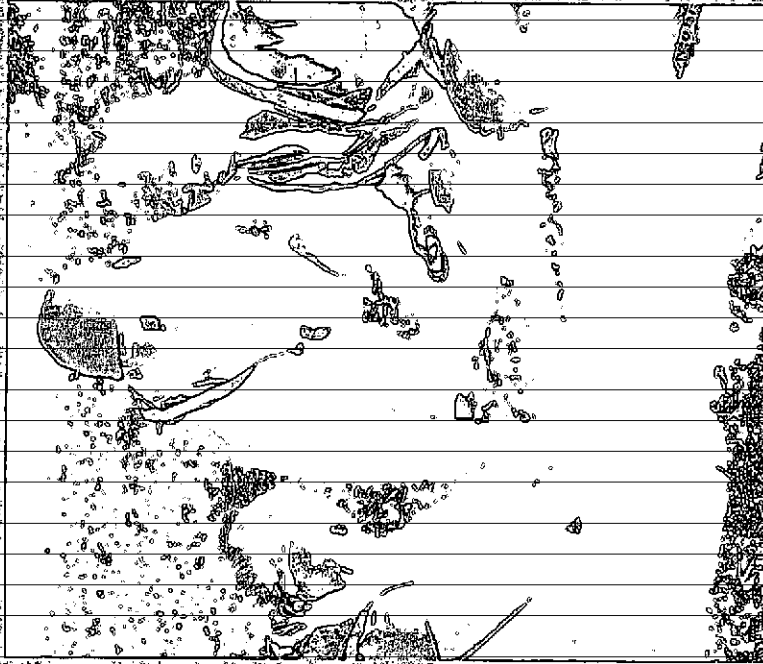


VWI provides sponsored the DNR Fishin' Pond at the Indiana State Fair. VWI provides to schools within their service territory the "Water Box", which is an assortment of experiments to teach children about the water cycle, source water protection and water treatment. Educators are given training on each of the topics, and hands on experience with the experiments

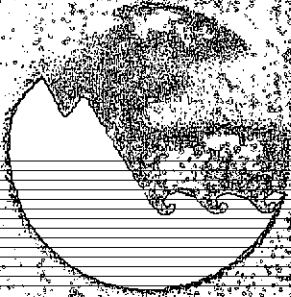


Educators getting training on the science of water treatment





Environmental Good Turn Day at Broad Ripple Park - CEES Service Learning Center, Crossroad of America Council Boy Scouts, Indy Parks and Veolia Water helped mulch trees, pull evasive honeysuckle and mark storm drains



AT THE CENTER

News and Notes from the Center for Earth and Environmental Science

Fall / Winter 2005

Director's Note

2005 has been a great year for CEES. We have continued our work evaluating water resources, completed a major watershed management plan for Eagle Creek Watershed, continued wetland restoration work and welcomed back a CEES staff member. We continue to deliver quality education programs and are in the process of developing new education programs with additional partners. The environmental service learning program completed a successful semester with new project sites and community partnerships. We also hosted middle school and high school classes at our research sites for experiential programs and hosted a regional water quality conference.

With the warm weather months winding down, we are now regrouping and planning for our 2006 endeavors. A major focus for next year will be expanding and enhancing our education and outreach programs. We will also implement many new research initiatives within Eagle Creek Watershed and look forward to collaborations with Goosepond and Beehunter Marsh. Our next newsletter will be sent in the spring with updates on current events as well as Friends of CEES tours and programs. Enjoy the holiday season and the winter months ahead. We will see you in the New Year.

Regards,

Lenore P. Tedesco, Director



Friends of CEES

Thank you for supporting CEES this past year through the Friends of CEES Program. We appreciate the continued support and dedication. CEES has developed the Friends program as a way to engage supporters in our research and education outreach initiatives. Through Friends of CEES, we provide opportunities to participate in activities such as tours of research sites, environmental stewardship projects, and workshops. We would like to invite you to renew or join as a member of Friends of CEES with a tax-deductible gift. Your gift contributes to CEES' ongoing research and education programs to support environmental stewardship.

Enclosed in this mailing is a Friends of CEES reply card and an addressed return envelope. Membership benefits at each donation level are outlined on the reverse side of the card. You can also visit http://www.cees.iupui.edu/Community_Info/friends.htm or email cees@iupui.edu to learn more about the program. Thank you for considering a tax-deductible gift to the Center for Earth and Environmental Science and for being a friend, partner, steward and champion of environmental research and education in Central Indiana.

The water source for a few customers, not in the Indianapolis area, comes from the Plainfield system. The finished water originates from ground water wells in 522020 is the identification number to reference for more information about water quality or water supplied from the town of Plainfield.

underground water sources called aquifers. Ground water stations treat water pumped from the White River and Ford Road Plant. These areas are: Geist Station, Harding station, stations that serve smaller portions of its service area. IW's other surface supply is Eagle Creek Reservoir. IW presently has four ground water wells in the White River area. These wells supplement the supplies to the White River area. A number of wells are used intermittently to supply the White River to these plants. Fall Creek to another surface water supply. Geist Reservoir and White River North. More Reservoir, near Noblesville, stores water to assure a dependable supply in White River to these plants. Fall Creek to four surface water treatment plants. White River and White River North. More Reservoir, near several sources. White River supplies two of the IW's water supply for its customers comes from consumable water. More informed user of life's most basic about drinking water safety. This helps you be a current standards and how you can learn more where water comes from, how it compares to regulations. This review provides information on its compliance with all drinking water Indianapolis employees. IW is pleased to report dedicated efforts of over 450 Veolia Water water for its nearly 287,000 customers. Due to the pride itself in providing safe, reliable consumers. Indianapolis Water (IW).

s a regional water supplier serving six counties and nearly one million consumers. Indianapolis Water (IW).

Source Water Supply

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Water Contaminants

Contaminants that may be present in source water include:

1. Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

2. Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or burning.

3. Pesticides and herbicides, which may come from a variety of sources such as agricultural, urban stormwater runoff, and residential uses.

4. Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

5. Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Additional information is available from the Safe Drinking Water Hotline at (800) 426-4791.

used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for thirty (30) seconds to two (2) minutes before using tap water.

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lead and drinking water. Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that the lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for thirty (30) seconds to two (2) minutes before using tap water.

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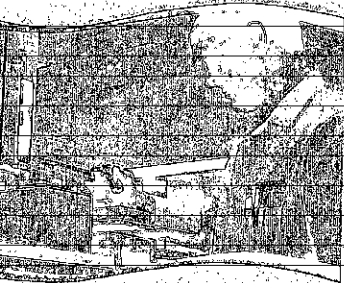
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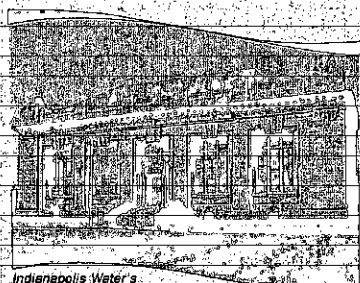
Daily tests are performed to ensure your water is compliant with all drinking water regulations.

Tackling Taste and Odor

IW is constantly looking for ways to improve taste and odor of finished water for our customers. In 2003, IW began the Central Indiana Water Resources Partnership (CIWRP), a long-term research and development partnership to create a center of excellence in water quality and watershed research. Through this cooperative research program, the assets and resources of IUPUI's Center for Earth and Environmental Science combined with the ongoing treatment and testing of IW's water quality experts and scientists to better understand the conditions that cause nuisance taste and odor and to determine the most efficient and reliable means of controlling it.

Watershed Protection

IW is committed to good stewardship and protection of the watersheds in Central Indiana from which our drinking water supply originates. A watershed is simply all the land across or through which water flows as it drains into a river, lake or reservoir. In addition to working with CIWRP on research and understanding our watersheds, we are initiating new efforts to work with businesses, farmers, educators and citizens to improve practices in watershed management.



Indianapolis Water's Riverside Pumping Station



Serving Central Indiana

Indianapolis Water
Water Quality Information:
(317) 926-3580

Customer Call Center:
24 hours a day, seven days a week
(317) 631-1431

Telephone:
Customer Service: (317) 631-1431
Toll Free: (877) 631-1431
Electronic Account Balance Information: (317) 631-1431

Customer Service Lobby Hours:
7 a.m. to 7 p.m. Monday through Friday
Saturday: 8 a.m. to Noon
TDD: (317) 263-6308

Information about Department of Waterworks board meetings can be found on the web at www.indygov.org/DWW or www.indianapoliswater.com.

1220 Waterway Boulevard
P.O. Box 1990 (Bill Payments)
P.O. Box 1220 (General Correspondence)
Indianapolis, IN 46206

Water Quality Review 2003

This is a guide
 por favor llame
 al (317) 631-1431
 Para el área de
 servicio al cliente.
 Para el área de
 servicio al cliente.

Indianapolis Water
 División de la
 Calidad del Agua
 del 2003

PWSID No. 5249004

Operated by
VEOLIA
 Water
 Indianapolis

www.Indianapoliswater.com

Indianapolis Water 2003 Treated Water Quality Data

Substance	System Wide (Finished drinking water data)			Possible Source
	MCLG	MCL		
Arsenic (ppb)	0 ppb*	50 ppb*	ND*	Natural Deposits
Atrazine (ppb)	3 ppb	3 ppb	ND*-1.03	Herbicide Runoff from Farming
Barium (ppm)	2 ppm	2 ppm	0.04-0.31	Natural Deposits
Copper (AL)	1.3 ppm	1.3 ppm	0.24 ppm (0.67 53 > Action Level) (2002)	Corrosion of Customer Plumbing
Chlorine (MRLCL)	NA*	4.0 ppm	0.4-2.6	Disinfection Treatment Additive
Cis-1,2-Dichloroethylene (MCL)	10 ppb	10 ppb	ND*-0.35	Discharge from Industrial Chemical Facilities
Fecal Coliform	0	1	0	Human and Animal Fecal Waste
Fluoride (ppm)	2 ppm	2 ppm	0.64-1.05	Natural Deposits & Treatment Additive
HAA-5* average (ppb)	0	60 ppb	44*	By-Product of Chlorination Treatment
HAA-5* range (ppb)	0	NA*	39-55*	By-Product of Chlorination Treatment
Lead (AL)	0	15 ppb	5 ppb (2 of 53 > Action Level) (2002)	Corrosion of Customer Plumbing
Nitrate (ppm)	10.0 ppm	10.0 ppm	0.21-3.8	Fertilizer, Septic Tank Leachate
THM-5 average (ppb)	0	80 ppb	46	By-Product of Chlorination Treatment
THM-5 range (ppb)	0	NA*	30-61*	By-Product of Chlorination Treatment
Total Coliform	0	5%	1.20% System Wide	Naturally Present in Environment
Turbidity (TT)*	NA*	0.5	0.08-0.13	Soil Runoff

KEY: * Effective in 2006; ** Will reduce to 10 ppb in 2006; * Not detected; † Heavy Metals; ‡ Trichloroethylenes; † Treatment technique measured in laboratory (units ppb/L); ‡ Not applicable; * Flow-weighted

Definitions

Maximum Contaminant Level Goal or MCLG:
The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available treatment technology.

Maximum Residual Disinfectant Level or MRDL:
The highest level of the disinfectant allowed in drinking water. There is convincing evidence that the addition of disinfectant is necessary for control of microbial contaminants.

Action Level or AL: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

Turbidity: The measure of the cloudiness of water. IW monitors turbidity as it is a good indicator of the effectiveness of the filtration system.

ppm = One part per million
ppb = One part per billion

Surface Water Treatment

The surface water treatment process is more complicated than ground water. Facilities that treat surface water are continually staffed by certified operators during operation. Steps involved include screening, coagulation, flocculation, sedimentation and filtration. Chemicals used in these steps are chlorine for disinfection, along with aluminum sulfate and polymer for particulate removal. Sulfuric acid and fluoride are used for the reasons noted in ground water treatment. On occasion, powdered activated carbon is used to remove herbicides or other organic chemicals that wash into surface water.

Additional Substances Tested in 2003 SURFACE WATER

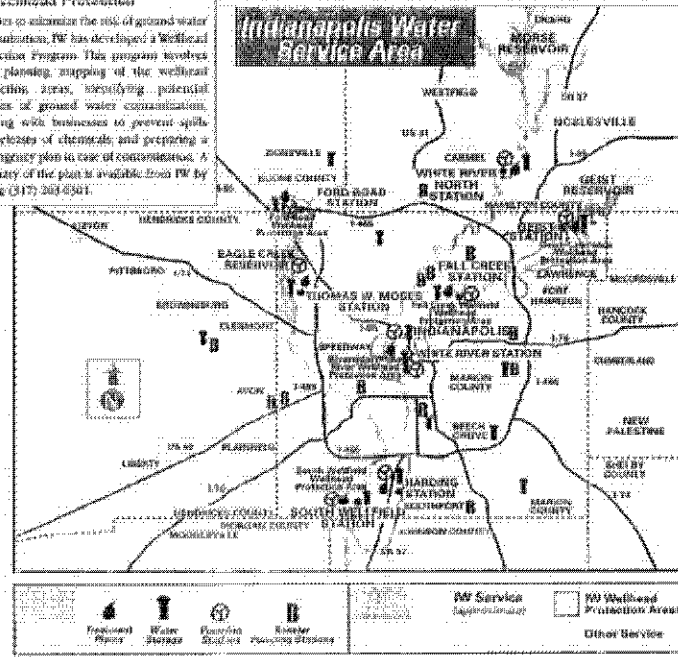
Substance (ppm)	White River Plant	Fall Creek Plant	T.W. Moore Plant	White River N. Plant
Alkalinity	223	200	140	220
Amonia (as N)	0.48	0.43	0.41	0.43
Calcium (as Ca)	88	74	25	110
Chloride	66	50	41	47
Conductivity (umhos)	750	650	500	600
Hardness as CaCO ₃	328	290	210	290
Hardness as CaCO ₃ (as mg per gallon)	18.8	16.1	12.2	16.1
Iron	0.03	0.02	0.02	0.02
Manganese	0.02	0.02	0.02	0.02
pH (Std. Units)	7.54	7.35	7.55	7.41
Sodium	42	26	25	32
Sulfate	62	69	63	150
Total Solids	450	380	281	537

Additional Substances Tested in 2003 GROUND WATER

Substance (ppm)	East Station	Harding Station	South Well Field Station	Ford Road Station
Alkalinity	260	260	270	350
Amonia (as N)	0.34	0.34	0.49	0.44
Calcium	88	84	100	100
Chloride	80	78	62	67
Conductivity (umhos)	780	773	780	790
Hardness as CaCO ₃	320	360	280	280
Hardness as CaCO ₃ (as mg per gallon)	18.9	20.0	15.6	15.6
Iron	0.02	0.02	0.02	0.02
Manganese	0.02	0.02	0.02	0.02
pH (Std. Units)	7.14	7.58	7.67	7.76
Sodium	13	40	30	41
Sulfate	21	51	58	50
Total Solids	380	395	377	400

IW Wellhead Protection

In order to minimize the risk of ground water contamination, IW has developed a Wellhead Protection Program. This program involves local planning, mapping of the wellhead protection areas, identifying potential sources of ground water contamination, working with businesses to prevent spills and releases of chemicals and preparing a contingency plan in case of contamination. A voluntary plan is available from IW by calling (317) 263-6301.



Additional Testing

Additional tests are routinely performed on samples of your drinking water to help ensure that it is safe to drink. No other potential contaminants of concern were detected. Your drinking water is periodically tested for more than 90 different chemical and microbiological parameters. Examples of a few contaminants that were not found in your drinking water include: arsenic, cadmium, chromium, benzene, ethylbenzene, methyl tertiarybutyl ether, toluene, trichloroethylene, xylene, 2,4-dichloro, hexachlorobenzene, pentachlorophenol, simazine, and toxaphene.

Cryptosporidium

Cryptosporidium is a single celled protozoan that lives in the intestines of animals and people. When ingested, this microscopic pathogen may cause a disease called cryptosporidiosis, which has flu-like symptoms.

IW has found cryptosporidium in all of its untreated surface water supplies - White River, Fall Creek, and Eagle Creek Reservoir - through its ongoing monitoring program. There have been no cryptosporidium found in ANY finished drinking water samples from IW's surface water treatment plants. IW has invested in both personnel and equipment for its monitoring program to ensure IW's customers an additional level of safety for their drinking water. IW microbiologists assisted the EPA in validating a quicker, more accurate method to find the protozoan in water. Progress continues by the IW laboratory staff towards attaining EPA approval for use of this new method.

IW surface water treatment plants utilize a process that eliminates the pathogen from drinking water-physical removal by coagulation, flocculation, sedimentation and filtration. IW plants have monitors on-line in the process that measure the clarity of the water, which although not a definitive indication of the presence of cryptosporidium, is used by the EPA to measure the likelihood of the microbe's presence in the drinking water. IW reports these regulated measurements to the Indiana Department of Environmental Management every month.

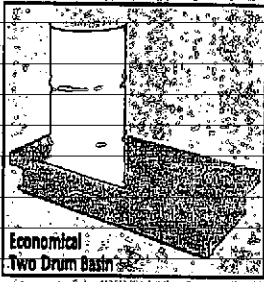
The efforts of the engineers, plant operators and laboratory personnel at IW, in collaboration with health agencies and government regulatory agencies, helps ensure the water you drink is free of this microscopic contaminant.

Ground Water Treatment

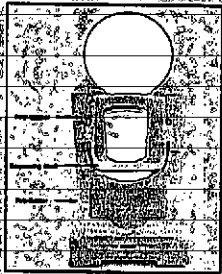
Ground water treatment plants aerate and filter water to remove dissolved iron and manganese. Chlorine is added to destroy any bacteria present and to maintain a level of disinfectant as the water travels through the distribution system. Fluoride is added to help strengthen resistance to cavities in teeth.

A small amount of ammonia is used to minimize by-products of the disinfection process and to allow chlorine to persist longer in the distribution system.

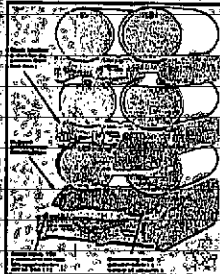
Marion County Wellfield Education Corporation Pollution Prevention Supply List October 2002



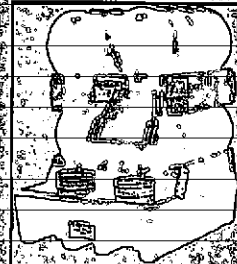
Drum Basin



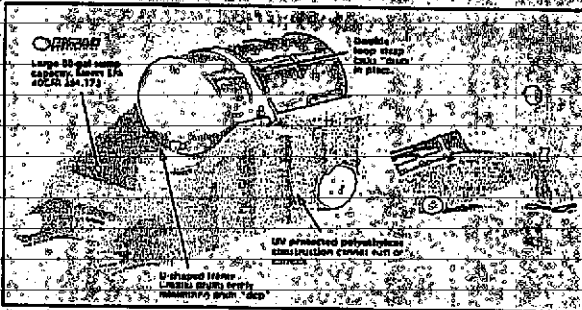
Poly Racker



Poly Racker, 2



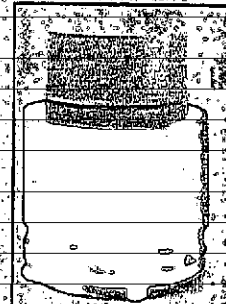
Drum Holder



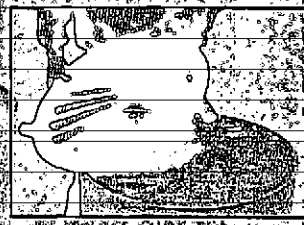
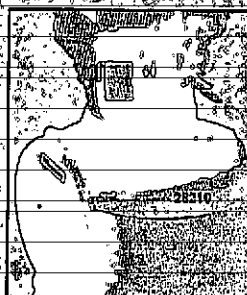
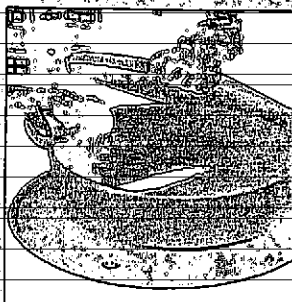
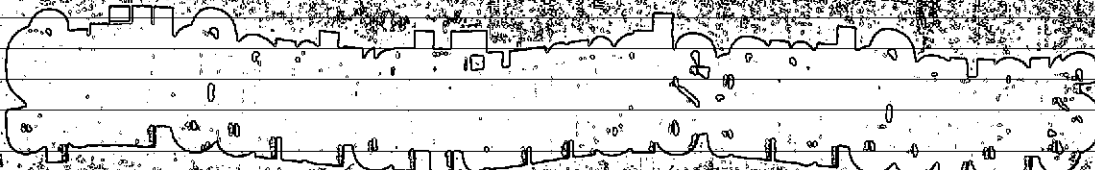
Polly Dolly



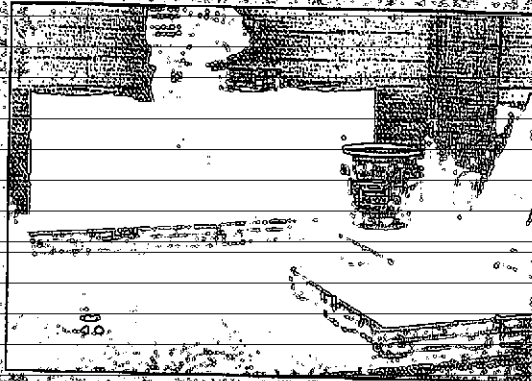
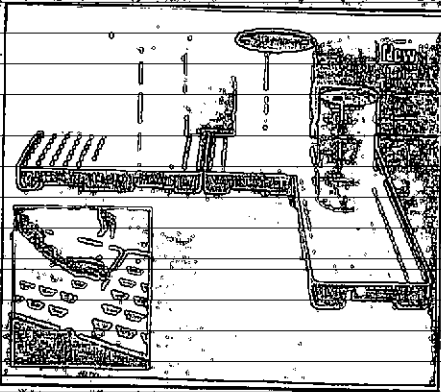
Mobile Drum



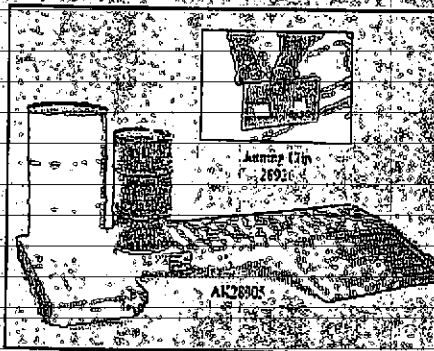
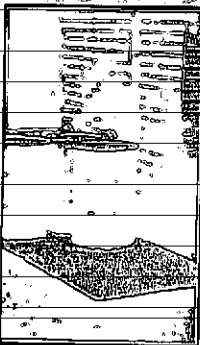
Drum Holders



Drum Funnel and Covers



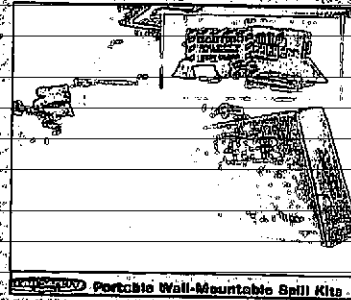
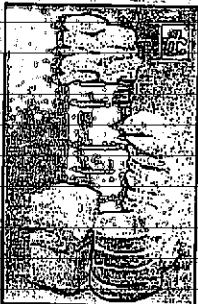
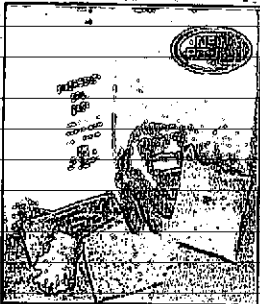
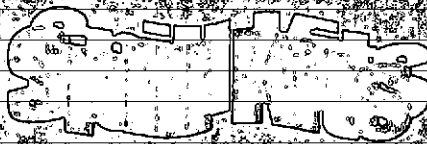
Spill Platforms



Spill Skids

Spill Pallet

Spill Kit

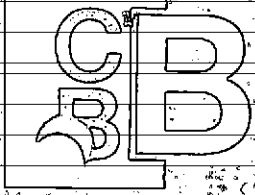


Portable Wall-Mountable Spill Kits

MCWEC
Potential Projects 2006

Task Option	Proposed/Optional Service	Estimated Hours	Estimated Cost
1	Continue follow-up calls/visits to active businesses. Continue to identify new businesses as they are established in the WFPAs, arrange/complete initial site visits, complete follow-up contacts, and arrange detailed on-site assessments where appropriate. Priority/focus will be on W-1 area businesses.		
2	Continue detailed on-site assessments for active businesses willing to have assessment completed. Acquire and deliver secondary containment and related spill products to assessed businesses. Priority/focus will be on W-1 area businesses.		
3	Update and maintain PSI/Education Databases in accordance with Tasks 1-2 to assist with record keeping and general coordination of initial site visits, follow up calls, and detailed on-site assessments. Coordinate with TOP and water utilities to facilitate consistency among databases.		
4	Develop and promote a grant program for teachers in middle and high schools located in wellfield protection areas to attend the American Ground Water Trust's, Groundwater Institute for Teachers. Grant recipients will receive a \$1,000 award directly from MCWEC to cover costs associated with transportation, registration, and attendance at the Institute.		
5	Develop and implement educational signage for posting in businesses with areas of chemical storage in WFPAs.		
6	Continue to develop and conduct employee spill training.		
7	Finalize the development and translation of industry specific guidance targeting dry cleaners, maintenance shops, etc.		

Task Option	Proposed/Optional Service	Estimated Hours	Estimated Cost
8	Develop a "Guidance Document for Facility Upgrades in Wellfield Protection Areas"		
9	Review historic sewer system connections and video inspect drain line (where possible). Estimated 10 facilities		
10	Develop and distribute a promotional brochure/flier focusing on the success and accomplishments of MCWEC's business education program.		
11	Research and provide the Board with a summary report on the feasibility of establishing a low interest loan or grant program that would allow MCWEC to provide high risk facilities with a greater level of on-site technical support and assistance.		
12	As needed assistance and support for modification of the existing Wellfield Protection Ordinance.		
13	Compile and update known groundwater impacts from existing IDEM LUST, VRP and RCRA records. This pilot project would focus on the W-1 area of one wellfield and would include summarizing known groundwater plumes, types of contaminants and their distribution in the wellfield, and the status of remediation efforts.		
	TOTAL - cost of tasks selected by MCWEC		



CHRISTOPHER B. BURKE ENGINEERING, LTD.

National City Center Suite 1368 South 115 West Washington Street Indianapolis, Indiana 46204 TEL (317) 266-8000 FAX (317) 632-3306

July 21, 2004

Mr. Tom Crouch, Chair
Marion County Wellfield Education Corporation
C/O Ms. Amy Armitage
Indianapolis Chamber Bank One Tower
111 Monument Circle Suite 1950
Indianapolis, Indiana
46204

RE: MCWEC Business Education Program (CBBEL Project # 03-387a)

Dear Mr. Crouch:

Enclosed please find an invoice for services performed in accordance with our contractual agreement with the Marion County Wellfield Education Corporation

For the month of June 2004, Zach Bishton (Resources Planner II) continued to update the PSI database, perform follow up calls and site visits to wellfield businesses, and identify new businesses in wellfield protection areas. In addition, Mr. Bishton installed educational signage at two wellfield gas stations and Kelly Frank (Secretary) stamped and mailed reminder postcards to wellfield businesses. During the month of July, CBBEL anticipates conducting additional calls and site visits to initiate on-site detailed assessments, touring the wellfield protection areas to identify new and priority businesses, conducting biannual postcard mailings and implementing signage at wellfield gas stations.

Thank you again for your consideration and utilization of our services. Please call Zach Bishton or me at 317-266-8000 if you have any questions.

Very truly yours,

Slavash E. Beik, P.E., CFM
Head, Water Resources Department

WELLFIELD SITE AND DEVELOPMENT PLANS

To: Matt Darney
Technically Qualified Person (TQP)

From: Apryl McMiller
Division of Compliance
604 N. Sherman Dr.
Indianapolis, Indiana 46201
317-327-5182

Date: 9/28/2006

Project location: 2105 N. Meridian Street

Wellfield: Riverside Wellfield

Permit Number: ILP06-02969

Comments: New additions to 4-story multi-use office building

These plans are being forwarded for review, as mandated by the Wellfield Protection Zoning Ordinance. Please contact the TQP within 4 business days of receipt at 598-9013 with your comments.

The TQP is to issue his summary findings within 10 business days of the date listed above.

You will receive summary findings for this review within 2 business days of the decision.

Matt Darney
Roy F. Weston, INC.
8501 Bash Street, Suite 1100
Indianapolis, IN 46250-5500

phone: 317-598-9013
fax: 317-589-9109

CC: Kendall S. Coad LPG
Environmental Resources Management Division

2700 South Belmont
Indianapolis, Indiana 46221
kcoad@indygov.org

phone: 317-327-2175
fax: 317-327-2274

Rosemarie Neimeyer Hansell
Marion County Health Department
3838 N. Rural St. Suite 520
Indianapolis, Indiana 46205
rhansell@hhcorp.org

phone: 317-221-2287
fax: 317-221-2288

LAND USE EXEMPTION FORM QUESTIONNAIRE

City of Indianapolis

Marion County Wellfield Protection Zoning Ordinance

Name of Facility: Meridian 21
 Address: 2105 N Meridian St
 Owner's Name: _____
 Owner's Address: _____
 Applicant's Name: From The Ground Up
 Land Use: Office
 Wellfield Name: White River 5 year
 Wellfield District: Center-top 9
 ILP Number: 06-02-745

Your facility is located in a wellfield. Many residents obtain their drinking water from the groundwater that is beneath your facility. The following questions must be answered prior to submitting your application for a permit under The Wellfield Protection Zoning Ordinance of Marion County. To expedite your review, the questions should be answered to the fullest extent possible and are designed to provide critical information to the Technically Qualified Person and various other members of the review board. Your answers will be reviewed to determine how your site might affect our drinking water supply.

1. Are you, the applicant, either the owner of the facility or a representative agent of the owner? Representative Agent

2. Describe the business activities to be conducted on this property. If this is an addition to a pre-existing business, what are those activities? Office / Condos

3. Is the proposed land use listed in Section 2.00, B, 2 (page 163 to 166 of the General Ordinance Record, No. 76, 1997)? NO

4. In its ordinary course, does this business have substances other than those exempted in Section 2.00, B, 1, (a) through (g) (page 163 of the General Ordinance Record, No. 76, 1997)? NO

Answer question No. 5 or 6 depending on which one is appropriate to your well district (i.e. W-1 or W-5).

5. If in W-1, in its ordinary course at any point in time, does this business have more or less than the threshold amount of one (1) gallon of liquids in the aggregate or six (6) pounds of water soluble solids in the aggregate? _____

6. If in W-5, in its ordinary course at any point in time, does this business have more or less than the threshold amount of one hundred (100) gallon of liquids in the aggregate or six hundred (600) pounds of water soluble solids in the aggregate? 235

9/27/06

Sep 26 06 11:57a 21 Meridian

RUGER, WARD

3178209170

PAGE 82/82

0.3

Land Use Exemption Form Questions

Page 2 of 2

7. Will any water-soluble solids or liquids be used or stored onsite? Please list them and their quantities. NO

8. Does the facility conduct any operations or processes that produce solid or liquid waste products? Please list the types of wastes generated. What is done with these wastes? NO

9. Does or will the facility have any discharge permits? NO

10. Does the facility have any on-site wastewater treatment or disposal system? Sanitary laterals

11. How is stormwater to be managed on the property? Collected by storm structures and conveyed to CSO

12. What will the final ground cover be at this property (i.e. pavement, asphalt, gravel, lawn)? Pavement, asphalt, lawn

13. Are any oil or chemical spills known to have occurred on the site or if an addition, on the adjacent property/building? If yes, describe. NO

14. Is the facility connected to a sanitary sewer? Yes

15. Does the facility have any discharge points such as floor drains, trenches, oil water separators, grease traps, pumps, etc.? Floor drains, trenches at bottom of access ramp

16. Does the property provide for rental or leased space? No

17. Are the occupants or users of the facility aware that they are in a wellfield? No

18. Besides routine building maintenance, will any other maintenance be performed on the property? Lawn maintenance

19. Are there any tanks, drums or other storage containers on the property? Please list their quantities, products stored and whether they are aboveground or underground. Trash container on asphalt pavement

Name of licensed professional (printed)

RUGER, WARD JR.

Date

9-26-06

Name of licensed professional (signature)

Company

ROGER WARD & ASSOCIATES, INC.

Title

Indiana Professional License No.

PE 19805489

9/26/06

IMPROVEMENT LOCATION PERMIT APPLICATION
MULTI-FAMILY, COMMERCIAL, AND INDUSTRIAL

PERMIT NUMBER: ILP 06 02969

A. ADDRESS: <u>2105 N. Meridian St</u> NUMBER N-S-E-W STREET NAME SUITE/BLDG		J. DEVELOPMENT STANDARDS (RESIDENTIAL): NUMBER OF UNITS: _____ BLD AREA: _____ COV OPEN SPACE: _____ REQUIRED PROPOSED % OF OPEN SPACE: _____ FRONTAGE: _____ LOT WIDTH: _____ LOT AREA: _____ RATIOS (REQUIRED) RATIOS (PROPOSED) MAX FLOOR AREA RATIO: _____ MIN OPEN SPACE RATIO: _____ MIN LIVABILITY SPACE RATIO: _____ MIN MAJOR LIVABILITY SPACE RATIO: _____ MIN TOTAL CAR RATIO: _____	
B. OWNER OR LEASEE OF THE PROPERTY: NAME: <u>Meridian of 21</u> ADDRESS: <u>2105 N. Meridian St</u> NUMBER N-S-E-W STREET NAME <u>INCL 63N</u> CITY: _____ STATE: _____ ZIP CODE: _____ TELEPHONE NUMBER: _____		K. DEVELOPMENT STANDARDS (NON-RESIDENTIAL): REQUIRED PROPOSED PRIMARY GFA: _____ ACCESSORY GFA: _____ # OF PARKING/INDCP SPACES: _____ # OF LOADING BERTHS: _____ % OUTSIDE STORAGE: _____ FRONTAGE: _____ LOT WIDTH: _____ LOT AREA: <u>33,135 sq ft</u> NUMBER OF EMPLOYEES / SHIFT: _____ SEATING CAPACITY: _____	
C. GENERAL ZONING INFORMATION: PROJECT DESCRIPTION: <u>Adds to existing 4-story office bldg</u> D. USE: (Check one in each column) EXISTING PROPOSED <input checked="" type="checkbox"/> COMMERCIAL <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> MULTI-FAMILY <input type="checkbox"/> MULTI-FAMILY <input type="checkbox"/> SPECIAL USE <input type="checkbox"/> SPECIAL USE		L. ADDITIONAL ACCESSORIES: ACCESSORY 1 ACCESSORY 2 ACCESSORY 3 REQ. PROP. REQ. PROP. REQ. PROP. FRONT: _____ FRONT: _____ FRONT: _____ SIDE 1: _____ SIDE 1: _____ SIDE 1: _____ SIDE 2: _____ SIDE 2: _____ SIDE 2: _____ SIDE AGG: _____ SIDE AGG: _____ SIDE AGG: _____ REAR: _____ REAR: _____ REAR: _____ FLR AREA: _____ FLR AREA: _____ FLR AREA: _____ HEIGHT: _____ HEIGHT: _____ HEIGHT: _____ # STORIES: _____ # STORIES: _____ # STORIES: _____ AREA: _____ AREA: _____ AREA: _____	
E. EXISTING ZONING: <u>CS</u> SURROUNDING: <u>NCUB E CSUB SCUB W CUB</u> TRANSITIONAL YARD: _____ YES _____ NO LANDSCAPE YARD: _____ YES _____ NO THOROUGHFARE: <u>Primary/Collector</u> COMMITMENTS: _____ YES _____ NO PETITION NUMBER: <u>2006 APP 13 / 2005 VAR 844</u> PRIOR PERMITS: _____ YES _____ NO INTEGRATED CENTER: _____ YES _____ NO NAME OF CENTER: _____ ADMINISTRATIVE APPROVAL: _____ YES _____ NO		M. APPLICANT: NAME: <u>From the Ground Up</u> ADDRESS: <u>2216 E 7th</u> CITY: <u>Indianapolis</u> I, the owner's authorized agent, claim, under penalty for perjury, that the foregoing representations are true and required plan, and construction plans are complete and accurate. I will be responsible for all work covered by permits granted under this form being in compliance with the information on the required plan, construction plan, this form, and all applicable laws and ordinances. I understand that approval of plans and issuance of permits does not relieve the need to comply with applicable laws and ordinances. I agree to hold harmless and indemnify the City of Indianapolis for any claim against the City on the result of any act of commission or omission by or on behalf of the undersigned, higher agent, principal, contractor, subcontractor or supplier. SIGNATURE: <u>Sherrill Moore</u> DATE: _____	
F. IMPROVEMENTS: EXISTING: <u>4 Story Office Bldg</u> PROPOSED: <u>2 core ramps / core elevator</u>		G. PRIMARY/ATTACHED: ACCESSORY/DETACHED: REQUIRED PROPOSED REQUIRED PROPOSED FRONT: <u>17</u> FRONT: _____ SIDE 1: <u>14 N</u> SIDE 1: _____ SIDE 2: <u>12 E</u> SIDE 2: _____ SIDE AGG: <u>131</u> SIDE AGG: _____ REAR: <u>21</u> REAR: _____ MAIN FL AREA: <u>170</u> FLOOR AREA: _____ MAX HEIGHT: <u>700 Uninc'd</u> MAX HEIGHT: _____ # OF STORIES: <u>1</u> # OF STORIES: _____ TOTAL BLD AREA: _____ TOTAL BLD AREA: _____	

CENTER Two
 Regional Center
 2006 APP 13 /
 2005 VAR 844

DIVISION OF COMPLIANCE
 604 N. SHERIDAN DR.
 INDIANAPOLIS IN 46201
 PHONE: (317) 327-8700 327-8410, FAX: (317) 327-6387
 WWW.INDIANY.GOV

1/28/2005

Sherrae Davis
Veolia Water
1220 Waterway Boulevard
Indianapolis, Indiana 46202
Sherrae.davis@veoliawaterna.com

phone: 317-263-6592
fax: 317-263-6400

Agenda



NOBLESVILLE TECHNICAL ADVISORY COMMITTEE



15 March 2007

9:00 AM

NOBLESVILLE PLANNING DEPARTMENT
16 SOUTH 10TH STREET SUITE A213

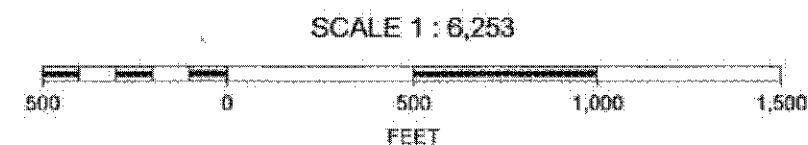
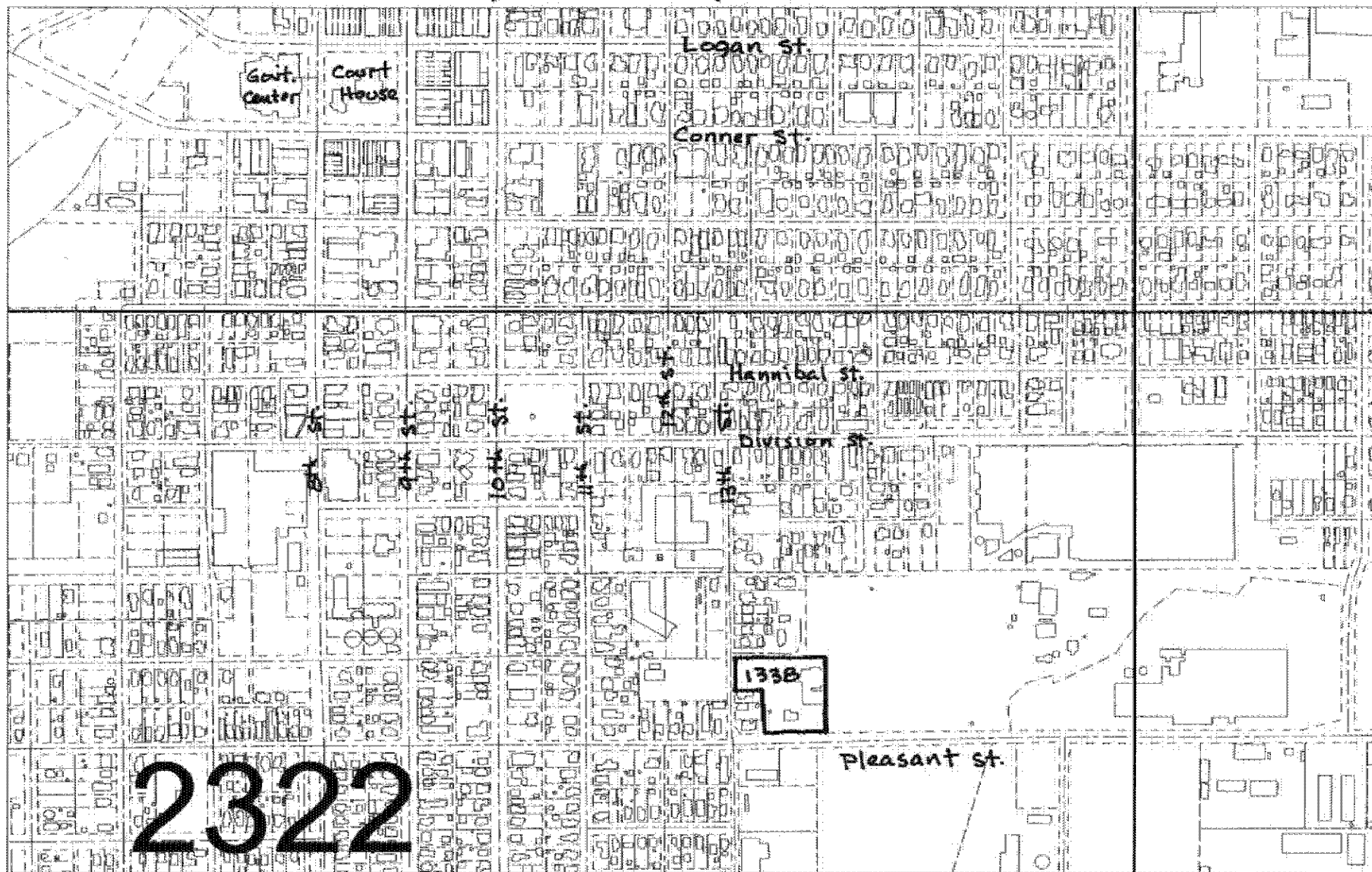
AGENDA TOPICS

1. (9:00-9:15) Committee to consider construction plans for a parking lot expansion. Property located at 1338 Pleasant Street in the City of Noblesville. Filed by Nathan Althouse for Noblesville Baptist Temple. (07N-24-0211) No issue.
2. (9:15-9:30) Committee to consider a secondary plat for "Saxony Corporate Campus". Property located at the southeast corner of Getz Road and Getz Court in the City of Noblesville. Filed by James A. Card for Perkins Specialized Transportation. (07N-18-0209) No issue.
3. (9:30-10:00) Committee to consider construction plans for an expansion of Noble West Shoppes. Property located at the northeast corner of Edenshall Road and Hazel Dell Parkway in the City of Noblesville. Filed by Lori North for Maefield Development. (07N-15-0208) 1.5 miles from future well sites on 146th St. west of River Rd.
- * 4. (10:00-10:15) Committee to consider construction plans for an expansion of Forest Park Aquatic Center and associated parking lot. Property located at the north end of Forest Park in the City of Noblesville. Filed by Doug Church for Friends Of Forest Park Pool. (07N-15-0136) No issue.

ADJOURNMENT

Goe Duane PLANNERS CONTRACT INC.

Noblesville Baptist Temple, 1338 Pleasant St.



Davis, Sherrae

From: Hill, David-Indianapolis
Sent: Monday, February 05, 2007 11:37 AM
To: Davis, Sherrae
Subject: FW: Well Data Attachment

-----Original Message-----
From: Gray, Mark
Sent: Friday, February 02, 2007 8:11 AM
To: Malone, Ed; Hill, David-Indianapolis
Cc: Willans, Alyson
Subject: Well Data Attachment

Ed/Dave,

Attached is a spreadsheet of the detects found in our wells from 2005 and 2006. (We are already monitoring quarterly VOCs for incentive purposes).
Let me know if there is more WQ information you require.



Well VOC Data YTD
Only Detects...

Mark A Gray
Laboratory Supervisor
Veolia Water Indianapolis
317-941-7147

Confidentiality Note: This e-mail message and any attachments to it are intended only for the named recipients and may contain legally privileged and/or confidential information. If you are not one of the intended recipients, please do not duplicate or forward this e-mail message and immediately delete it from your computer.

ID NUMERIC	ID TEXT	SAMPLED DATE	PLANT ID	ANALYSIS
62158	WRWELL3-JAN-26-05-0004	1/26/2005 11:15		VOC
62159	WRWELL6-JAN-26-05-0004	1/26/2005 12:30		VOC
78836	FCWELL2-APR-13-05-0004	4/13/2005 14:00	FC	VOC
80627	WRWELL3-APR-21-05-0005	4/21/2005 10:50		VOC
80628	WRWELL6-APR-21-05-0005	4/21/2005 10:00		VOC
101580	WRWELL3-JUL-21-05-0006	7/21/2005 11:25		VOC
101581	WRWELL6-JUL-21-05-0006	7/21/2005 11:10		VOC
126085	WRWELL3-OCT-19-05-0007	10/19/2005 9:00		VOC
126086	WRWELL6-OCT-19-05-0007	10/19/2005 9:00		VOC
148838	WRWELL3-JAN-25-06-0008	1/25/2006 8:00		VOC
148839	WRWELL6-JAN-25-06-0008	1/25/2006 8:00		VOC
148841	WRWELL8-JAN-25-06-0005	1/25/2006 8:00		VOC
168434	WRWELL3-APR-19-06-0009	4/19/2006 11:10		VOC
168435	WRWELL6-APR-19-06-0009	4/19/2006 13:15		VOC
191075	WRWELL8-JUL-18-06-0007	7/18/2006 11:55		VOC
215176	WRWELL3-OCT-25-06-0011	10/25/2006 13:00		VOC
215177	WRWELL6-OCT-25-06-0011	10/25/2006 13:15		VOC
80627	WRWELL3-APR-21-05-0005	4/21/2005 10:50		VOC
80628	WRWELL6-APR-21-05-0005	4/21/2005 10:00		VOC
101580	WRWELL3-JUL-21-05-0006	7/21/2005 11:25		VOC
101581	WRWELL6-JUL-21-05-0006	7/21/2005 11:10		VOC
126085	WRWELL3-OCT-19-05-0007	10/19/2005 9:00		VOC
148838	WRWELL3-JAN-25-06-0008	1/25/2006 8:00		VOC
148839	WRWELL6-JAN-25-06-0008	1/25/2006 8:00		VOC
168434	WRWELL3-APR-19-06-0009	4/19/2006 11:10		VOC
168435	WRWELL6-APR-19-06-0009	4/19/2006 13:15		VOC
215176	WRWELL3-OCT-25-06-0011	10/25/2006 13:00		VOC
215177	WRWELL6-OCT-25-06-0011	10/25/2006 13:15		VOC
62158	WRWELL3-JAN-26-05-0004	1/26/2005 11:15		VOC
211915	SWFWELL12-OCT-11-06-0011	10/11/2006 12:00	SWF	VOC
62159	WRWELL6-JAN-26-05-0004	1/26/2005 12:30		VOC
80628	WRWELL6-APR-21-05-0005	4/21/2005 10:00		VOC
101581	WRWELL6-JUL-21-05-0006	7/21/2005 11:10		VOC
126086	WRWELL6-OCT-19-05-0007	10/19/2005 9:00		VOC
148839	WRWELL6-JAN-25-06-0008	1/25/2006 8:00		VOC
168435	WRWELL6-APR-19-06-0009	4/19/2006 13:15		VOC
62158	WRWELL3-JAN-26-05-0004	1/26/2005 11:15		VOC
62159	WRWELL6-JAN-26-05-0004	1/26/2005 12:30		VOC
78836	FCWELL2-APR-13-05-0004	4/13/2005 14:00	FC	VOC
80627	WRWELL3-APR-21-05-0005	4/21/2005 10:50		VOC
80628	WRWELL6-APR-21-05-0005	4/21/2005 10:00		VOC
101580	WRWELL3-JUL-21-05-0006	7/21/2005 11:25		VOC
101581	WRWELL6-JUL-21-05-0006	7/21/2005 11:10		VOC
101583	WRWELL8-JUL-21-05-0003	7/21/2005 12:20		VOC
101947	RSWELL8-JUL-22-05-0003	7/22/2005 12:45		VOC
101950	RSWELL26-JUL-22-05-0003	7/22/2005 13:00		VOC
101952	RSWELL29-JUL-22-05-0007	7/22/2005 12:30		VOC
126085	WRWELL3-OCT-19-05-0007	10/19/2005 9:00		VOC
126086	WRWELL6-OCT-19-05-0007	10/19/2005 9:00		VOC
148838	WRWELL3-JAN-25-06-0008	1/25/2006 8:00		VOC
148839	WRWELL6-JAN-25-06-0008	1/25/2006 8:00		VOC

TEMPLATE -Standard Operating Procedure /policy/ forms

4QR

Printed copies uncontrolled unless stamped: Controlled - In red

Facility Name	Indianapolis Water Wells
SOP Title	Well Use Operating Classification
SOP Number	
Date and Revision #	June 16, 2005 (draft-revision 1.1) (revision 1.2, 3/26/07)
Author	Dale Pershing, Sherrae Davis
Procedure Summary	<i>For Process Operating SOPs: This SOP is to provide guidance in the operation of wells in areas of potential contamination.</i>

Note: Not all categories apply to every Procedure or Policy. Safety Considerations, Environmental Considerations, Calibration and Standardization Contact information may not be required for all type of procedures/policies/forms.

Introduction and Purpose

This SOP is intended to provide guidance in the operation of wells and associated assets when there is evidence of a contamination threat to the groundwater that could present a significant potential impact to the finished water quality.

The emphasis is on 'threat' and 'significant potential impact'. A condition is deemed a threat if it is reasonably expected to result in finished water approaching an EPA or IDEM established contaminant level with a known health risk.

The primary focus for this SOP is within the 1 year time of travel.

Trigger Conditions – that place a well into a particular operating status

- Notification of possible soil or groundwater contamination with the potential to impact one or more wells. Notification may include but is not limited to laboratory data, communication of contamination incidences, or communication of historical site history. Notification may also include discovery resulting from our monitoring program.
- Use restrictions may be employed on a case by case basis, contingent upon the particular circumstances of a situation. Three trigger criteria that will always result in a change of use status are:
 - a. Determination that a contaminant within a well exceeds 10x MCL. See 327IAC2-11-7(d)(1) of the Indiana Administrative Code as a reference to similar ground water guidance.
 - b. Determination that a contaminant above the ½ MCL, the MCL being consistent with 327IAC8-2 and 327IAC2-11-6(a) Table 1 is detected in the finished water.
 - c. Knowledge that contaminant migration is suspected to result in either raw water concentrations above 10x MCL or finished water concentrations of ½ MCL.

Well Use Operating Classification

*At knowledge of a suspected contaminant migration Veolia will increase testing frequency from annual to a minimal quarterly cycle, and track the contaminant through a period of 4 quarters to establish trending. If trend indicates threshold may be reached prior to next sample event, the well will be placed on restricted use status. Evaluation of this data along with other information from the SOP Inquiry Checklist, i.e. historical site data, hydro-geological information, etc. will determine the contaminant migration risk and the well operating classification. Where technology as a corrective measure, i.e. VOC Air Stripping, is introduced its impact will be evaluated and factored into the decision to reclassify a well's use.

Procedure

Receive notification of potential contaminant or evaluate monitoring data regarding potential contaminant(s).

Confirm accuracy of condition being reported. Confirmation includes determination of source credibility, verification of contaminants involved, and location of reported contamination relative to 1 year time of travel. Confirmation and verification may include communication with local emergency responders, consultants, regulatory agencies, and a review our historical monitoring data, available chemical documents or microbiological records.

Begin to address questions on Inquiry Checklist. Gather as much of this information as is readily available, i.e. what is the contaminant?, what hydro-geological information is available?

Determine location of the wells in relation to the affected site.

Determine the operating status of wells that are in close proximity of the affected site.

Where preliminary information will permit, determine if there is an immediate risk to the well remaining in its present state pending further investigation. At a minimum preliminary information that must be available when making a decision to leave a well on pending an investigation must include:

- > The contaminant(s)
- > The well use and type of treatment
- > The type of treatment and its effect on the contaminant(s)
- > The date well was last tested for detection of the contaminant(s)
- > The results in relation to MCL
- > Some hydro-geological information (approximate depth, general geological formations)

Pending this information the well must be placed in "last on/first off status" or "restricted" use category.

Well Use Operating Classification

When we suspect there is a risk from our preliminary data, however our information is not adequate to determine the operating strategy or change in use, the following steps are engaged:

- where possible collect a sample for analysis prior to temporarily discontinuing production from the well(s)
- notify personnel of operating status, begin to determine what information is available using the inquiry checklist
- Assess available data. The assessment should include a review by one of more of these persons: VWI consulting hydrologist, VWI Production Director, VWI Production Manager, Environmental, Health, Safety and Security Manager (EHS&S), Asset Management Manager, Process Engineer or Regional Foreman
- Place well(s) in "use" category to include:
 - **No Use Restriction:** normal operation
 - **Discretionary:** Results in a change in how well use is generally determined, but may not require that a well be the last available before placing it in operation, i.e. running a well less frequently, running a well for a shorter duration.
 - **Last on/First off:** Use other wells before placing this well in service and take it offline first. (Typically, not all available wells are run at the same time for extended periods)
 - **Restricted:** Take off line until further notice or in emergency need only. Emergency is exercising the "Emergency Operations Plan" to call for all available resources to maintain adequate system pressure

Notify DOW of status and findings

Perform periodic evaluation of data to reassess well operating status

- If a well is placed in "restricted use" pending additional information, i.e. laboratory data then its status may be reevaluated upon data availability and reclassified as appropriate
- If a well was placed on restricted use resulting from one of the three use restriction triggers, the condition that resulted in the restriction must be corrected before moving it to another use category. Correction might include the use of a water treatment technology, i.e. VOC Air Stripping, or well relocation

Well Use Operating Classification

- o The other use categories besides restricted may be reclassified as well with additional information or some corrective measure

When a reassessment and reclassification is made the DOW will be notified within 1 business day of the operating change.

Equipment and Supplies

See references for laboratory references and SOP

References

Refer to Laboratory Monitoring Plan (LMP), for well sampling, certifications, EPA methods, Chemical Hygiene Plan, Emergency Operations Plan, ISO Calibration Procedure

Safety Considerations

Refer to Chemical Hygiene Plan, VWI Safety Policies

Environmental Considerations

See Chemical Hygiene Plan, See LMP, Ensure proper disposal of contaminated wellwater.

Calibration and Standardization

See ISO Calibration Procedure

Contact Information

Dale Pershing, EHS&S Manager, 317.655-1758

Sherrae Davis, Asset Management Manager, 317.263-6370

Ed Malone, Production Director, 317.941-7120

David Hill, Production Manager, Region 1, 317.941-7155

Doug Buffington, Production Manager, Region 2, 317.859-6658

Derek Sutton, Process Engineer 317.941-7166

Doug Dusbiber, C.P.G., Hydrogeologist, Veolia Water North American Services, 412-809-6718

Well Use Operating Classification

APPROVAL AND SIGN
Approval and Sign Off

SOP Approval		
Title	Signature *	Date
Plant Manager		
EH&S Representative		
Operations Manager		
Supervisor		
Maintenance Manager		
Operator Training and Sign-Off		
Name (Print)	Name (Signature)	Date

* A minimum of two approval signatures are required for each SOP and must include the Plant Manager, and the individual with responsibility for the area covered by the scope of this SOP.

Change Log

Revision	Date Issued	Reason for revision (Note areas changed)

Well Use Operating Classification SOP attachment
(This is within the 1 year time of travel)

Well Use Operating Classification

Inquiry Checklist

Use list of questions to aid in information gathering and evaluation process

- How we were notified?
- Is the contamination confirmed?
- Determine location of the wells in relation to the affected site
- Determine the operating status of wells that are in close proximity of the affected site.
- Are there multiple samples taken at different points in time that show a trend?
- What does the trend suggest?
- Contamination in the soil, ground water, well?
- Was water analysis done by a certified water lab?
- Was soil tested by a recognized lab?
- Did lab data result from an approved methodology, i.e. EPA method- what methodology was used?
- What is the contaminant?
- Does the treatment process remove the contaminant?
- Is there a MCL for the contaminant? If so what is it?
- Is there a MCLG for the contaminant? If so what is it?
- Are there known health effects at referenced concentrations?
- What is the historical background of the contaminant, it's movement?
- What's the treatment process for the groundwater- do we blend waters, provide surface treatment, groundwater treatment, disinfect, aerate, use absorption and send to the distribution system?
- What's the impact to our production capabilities? -- can well be used in "emergency situation" ?

Well Use Operating Classification

- - Has a regulatory agency requested action as a consequence of the detection? What is the action?
 - What hydro-geological information is available to indicate the contaminant movement?
 - What information is available through IDEM and DNR relative to this contamination site?
 - Is the well water concentration above the MCL or MCLG? Is it 10x MCL?
 - Is the finished water concentration approaching ½ of the MCL or MCLG?
-
-

Branham, Mary Ann

From: Davis, Sherrae
Sent: Thursday, September 20, 2007 12:59 PM
To: Branham, Mary Ann
Cc: Borchers, Mike; Bryant, Jonathan
Subject: Pool construction request- Morse

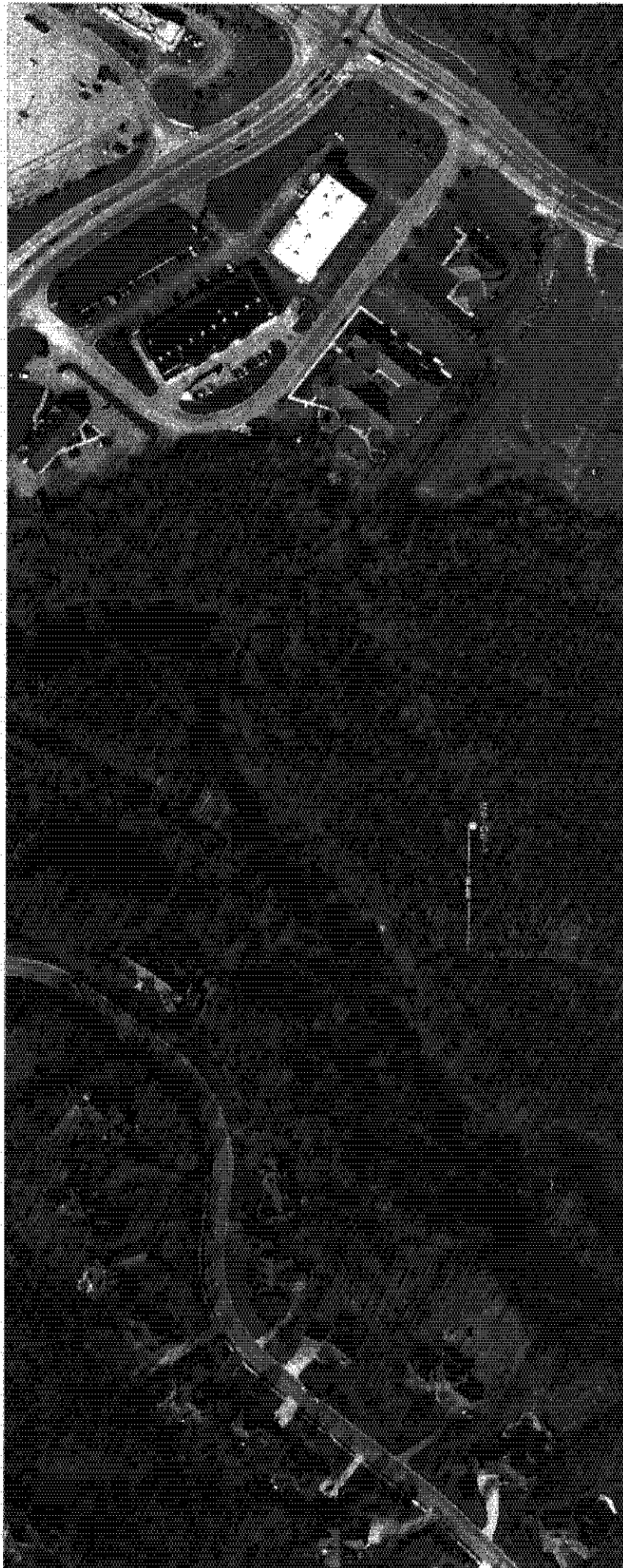


brad hill 13371

marjac way poo...

Mary Ann, please dump this into a template and mail to homeowner. file copy for our records. Provide pdf to Mike and Jon. Send copies to Brad Hill Custom Homes PO Box 193 Fishers, IN 46038 and Mike McGhee and Associates PO Box 425 Camby, IN 46113

Thanks, Sherrae



MONITORING WELL

WELL ID: 227 SW OF THE WELL: 206.5' W OF GRAVEL DRIVE

STATE PLANE COORDINATES

EASTING = 271022 NORTING = 1094030

UTM COORDINATES

EASTING = 588314 NORTING = 4417192

WAD 85

[illegible]



Date:	REVISIONS	By:	VEOLIA WATER	
			INDIANAPOLIS, LLC	
			1200 WESTERN AVENUE	
			INDIANAPOLIS, IN 46202	
			WWW.VEOLIAWATER.COM	
			(317) 438-1361	
<p>WELL LEGEND</p> <p>EXISTING WELL AND PROPOSED WELL AND PROPOSED LATERAL PROPOSED LATERAL PROPOSED LATERAL PROPOSED LATERAL PROPOSED LATERAL</p>			<p>ASSIGNED NORTH</p>	
<p>SCALE: 1" = 50'</p>			<p>DATE: 2/28/2007</p>	
<p>PROJECT: 0601401</p>			<p>1512 SOUTH FORD ROAD</p>	
<p>DESIGNED BY: HNT</p>			<p>INDIANAPOLIS, IN 46202</p>	
<p>DATE: 2/28/2007</p>			<p>1</p>	

MONITORING WELL	
WELL-1	SAFETY PLANT & SEWAGE TREATMENT PLANT
STATE PLANE COORDINATES	
EASTING - 156804	NORTHING - 1708804
UTM COORDINATES	
EASTING - 661529	NORTHING - 4420271
NAD 83	



MONITORING WELL MW-RS-6	
MW-RS-6	95' N OF SUBSTATION FENCE & 102' E INTAKE D8
STATE PLANE COORDINATES	
EASTING - 18880	NORTHING - 1056034
UTM COORDINATES	
EASTING - 570805	NORTHING - 4405212
NAD 83	


MONITORING WELL MW-RS-7	
MW-RS-7	21' W OF FENCE & 30' S OF THE NW CORNER OF HOA BLDG
STATE PLANE COORDINATES	
EASTING - 188270	NORTHING - 1055982
UTM COORDINATES	
EASTING - 570843	NORTHING - 4404985
NAD 83	

Date:	REVISIONS	By:	
VEOLA WATER INDIANAPOLIS, LLC 1200 WEST 10TH STREET INDIANAPOLIS, IN 46202 (317) 434-3000			
1" = 150' PROJ. # 0601401		SCALE: 1" = 150' PROJ. # 0601401	
WHITE RIVER STATION 800 WEST 10TH STREET INDIANAPOLIS, INDIANA 46202		SHEET NUMBER: 1 of 1 DATE: 2/28/2007	



MONITORING WELL MW-FC-3A	
70.1' E OF THE NE CORNER OF GARAGE & 66.7' S. O. CLAY ST	
STATE PLANE COORDINATES	
EASTING - 159833	NORTHING - 1671026
UTM COORDINATES	
EASTING - 574833	NORTHING - 4409858
NAD 83	

MONITORING WELL MW-FC-3B	
65.8' E OF THE NE CORNER OF GARAGE & 33.4' S. O. CLAY ST	
STATE PLANE COORDINATES	
EASTING - 159849	NORTHING - 1671026
UTM COORDINATES	
EASTING - 574833	NORTHING - 4409858
NAD 83	

Date: _____		Revisions: _____		By: _____	
 VEOLIA WATER 7201 EAST ASHB STREET INDIANAPOLIS, INDIANA 46205 (317) 438-1807					
1" = 50' 0601401		SCALE 1" = 50' 0601401		FALL CREEK STATION 797 2045 EAST ASHB STREET INDIANAPOLIS, INDIANA 46205 Project Manager	
SHEET NUMBER: 1 of 1 DATE: 2/26/2007					



BURC

Well Monitoring Program

Wellhead Protection Plan

Veolia Water Indianapolis, LLC

July 2005



DRAFT

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LIST OF APPENDICES

Appendix	Description
A	FirstSearch Environmental Reports
B	Monitoring Well Construction Specifications
C	Sample Field Records

GROUNDWATER MONITORING WELL RECORD

SITE LOCATION: _____

WELL NO.: _____

DATE: _____

PROJECT NO.: _____

FIELD BOOK NO. _____

WEATHER: _____

SAMPLING CREW: _____

WELLHEAD INSPECTION:

Evidence of Activities at Well: _____

No: _____

Yes: _____

Comment: _____

Well Protector Condition: _____

Good: _____

Poor: _____

Comment: _____

Insect/Rodent Intrusion: _____

No: _____

Yes: _____

Comment: _____

Other: _____

FIELD EQUIPMENT USED:

Date Calibrated: _____

Water Level Indicator: _____

pH Meter: _____

Conductivity Meter: _____

Thermometer: _____

Turbidity: _____

Dissolved Oxygen: _____

Other: _____

STATIC WATER LEVEL:

Reference Point (RP) Elevation: _____

Top Casing: _____

Top Protector: _____

Other: _____

Measured Level: _____

1st: _____

2nd: _____

3rd: _____

Average: _____

Time/Depth: _____

Well Bottom Measured Distance from RP: _____

PURGING:

Purging Device: _____

Dedicated Pump: _____

Dedicated Pump: _____

Disposable Bailer: _____

Grundfos Pump: _____

Bladder Pump: _____

Other: _____

Time Elapsed During Purging (mins.): _____

Total Gallons Removed During Purging: _____

MEASUREMENTS	TIME (IN MINUTES)						
Amount of Water Removed (gals.):							
pH (S.U.):							
Conductivity (umhos/cm)							
Temperature (°C)							
Turbidity (NTU)							
TDS (ppm)							
Dissolved Oxygen (mg/l)							

SAMPLING:

Sampling Device: _____

Dedicated Pump: _____

Dedicated Pump: _____

Disposable Bailer: _____

Grundfos Pump: _____

Bladder Pump: _____

Other: _____

Time Sampling Began: _____

Time Completed: _____

Characteristics of Water: _____

Odor: _____

Color: _____

Turbidity: _____

Other: _____

QA/QC Sample Collected: Duplicate _____

Replicate _____

Matrix Spike/Matrix Spike Duplicate _____

None _____

REMARKS:

Wellbore	ID	Estimated Depth (ft)	Screened Interval (ft) (sge)	State-Plane Coordinates (ft) NAD 83		UTM Coordinates (m)		Property Information	
				Easting	Northing	Easting	Northing	Owner	Address
Harbour Water	MW-HW-1	70	60 - 70	CANCELLED DUE TO HARBOUR CLOSING				City of Indianapolis	0 South Harbour Dr
	MW-HW-2	100	90 - 100	CANCELLED DUE TO HARBOUR CLOSING				City of Indianapolis	None
Ford Road	MW-FR-1	65	55-65	165834	1703864	561529	4420271	Unknown	2612 South Ford Road Zionsville, IN 46077
Galest	MW-GW-1	45	35-45	237322	1694030	586314	4417192	City of Indianapolis	9810 Galest Crossing Drive
	MW-GW-2	45	35-45	235176	1691733	585694	4416333	City of Indianapolis	9545 Fall Creek Road
Fall Creek	MW-FC-2	40	30-40	NO FORMATION				City of Indianapolis	4040 North Keystone Ave
	MW-FC-3A	34	24-34	189663	1671075	574965	4409658	City of Indianapolis	2045 E 43rd Street
	MW-FC-3B	67	57-67	199648	1671070	574963	4409656	City of Indianapolis	2045 E 43rd Street
	MW-FC-5	45	35-45	196900	1673600	572631	4410811	City of Indianapolis (Arsenal Park)	1400 E 40th Street
	MW-RS-1	70	60-70	170200	1654700	568738	4404716	City of Indianapolis	2100 W 16th Street
Riverside	MW-RS-2	74	64-74	183382	1653637	569766	4404466	City of Indianapolis	1220 Walkway Boulevard
	MW-RS-3	70	60-70	184500	1661900	570427	4403056	City of Indianapolis	Shannon Drive
	MW-RS-4	65	55-65	UNABLE TO PUT DRILL RIG ON LEVY				City of Indianapolis	1100 W 16th Street
	MW-RS-5	60	50-60	190390	1653600	570965	4404534	City of Indianapolis (Fall Creek & 16th Park)	700 W 16th Street
	MW-RS-6	35	25-35	189409	1650034	570905	4405212	City of Indianapolis	950 West 16th Street
	MW-RS-7	74	64-74	186270	1655282	570949	4404965	City of Indianapolis	950 West 16th Street
South	MW-SW-2	54	44-54	173390	1608571	567239	4394654	City of Indianapolis	3425 W. Southport Road

Notes:

ft - feet

ft/lgs - feet below ground surface

m - meters

2006 INSTALLED

2007 JONATHAN BRYANT WORKING WITH CITY DEPARTMENTS TO GET EASEMENTS

NEED ADDITIONAL FUNDS TO OBTAIN EASEMENTS FROM OWNERS

NOT COMPLETED

*Installed per a needed well per Marion County Board of Health Discussions

[illegible]

Date Inspected	TCU Project ID	OCU Project ID	Project Name	Address	Site Count	Condition	Utility Use	Findings	U-D Line	U-D Inspection Information	Re-inspection Date
	04004	04-2801	West Threading	1703 49 MILK ST		Reversible W-1	Truck Storage			Initial Inspection - yellow card received 12/26/05	3/13/06
02/26/06	04007	04-000002	Southern Drive Sewer (SR00008)	7425 W McCarty Blvd		Permy W-1	Soft Storage				
02/28/06	04018	04-083001	Good Used Metal & Brk	5345 N. Windrop		Fuel Cans W-5	Dog Spa			2/28/06 In Compliance	NA
02/28/06	04018	04-083001	US Post Office	2850 MILK ST		Reversible W-5	Post Office			2/28/06 In Compliance	NA
01/04/06	04022	04-091001	Maintenance Storage Bldg	4150 N Keystone Ave		Fuel Cans W-1	Maintenance	01/09/06 Out of compliance. No notification of change from a storage bldg and Cover Missing. Location to a methanese gas. No secondary containment for chemical or Pests Washer. No Chemical Supplies or Hazard notification. No floor coating. No training.		01/09/06 Out of Compliance. In process of remedying use to a methanese facility.	4/6/2008
02/28/06	04028		High Tech Supply	1348 W. 18th St		Reversible	W-1	02/01 Out of Compliance. No secondary containment for chemical or Pests Washer. No Chemical Supplies or Hazard notification.		2/28/06 In Compliance	NA
	80002	05-082001	Business Center	5040 S. Edmund Ave		Part	Concrete Batch Plant	01/17/04 In Compliance. 07/07/05 (MCH-10) Out of Compliance. "Assessing treatment plans to review fueling procedures"		2/28/06 In Compliance	April 05
	85-145-7	05-022005	(U3) Tons (Lumber/Bricks)	4024 Milwaukee Rd		Fuel Cans W-1	Dry Chemicals W-1	01/08/05 Out of Compliance. Piling out site. Secondary containment. Floor Sealed and in Secondary containment. Floor drains in Secondary not sealed. 2/28/06 Out of Compliance. Most improve housekeeping and no drain water away from well.		1/8/06 - VRP Site per IDEM	
01/15/06	05003	05-041501	Auto Auto Parts	5455 N Keystone Ave		Fuel Cans W-5	Auto parts store	01/09/06 Out of compliance. No En Respiratory kits avail or documented. Special batteries not stored in sufficient secondary containment. No En Response Plan/Enrtd. No Chemical Supplies or Hazard notification. No floor coating. No training equipment.		01/09/06 Out of compliance. No En Respiratory kits avail or documented. Special batteries not stored in sufficient secondary containment. No En Response Plan/Enrtd. No Chemical Supplies or Hazard notification. No floor coating. No training equipment.	1/1/2008
	05001	05-002301	Emergency Services	675 Broadway Dr		Spillway W-5	Retail Store			Initial Inspection - yellow card received 2/6/05	3/13/06

Davis, Sherrae

From: PTheveno@HHCorp.org
Sent: Wednesday, June 22, 2005 3:40 PM
To: PTheveno@HHCorp.org; MLMLJ@aol.com; chrispryor@mibor.com; KCOAD@indygov.org; kholdswa@indygov.org; tcrouch@collateral.com; zbishton@cbbel-in.com; barnett_dc@yahoo.com; JMundell@mundellassociates.com; inenviro@iquest.net; ccurry@indygov.org; jmoore@indylink.com; spalding@iquest.net; kirietmann@aol.com; ttroxell@lawutilities.com; dsettle@lawutilities.com; dhirschl@indygov.org; sherrae.davis@veoliawaternet.com; tmethod@indygov.org
Subject: MCHD info

attached is info from the MCHD Haz Mat Incident Log and our TOP business inspections. I thought you may want to review it before the meeting to provide me feedback,,,,,thanks

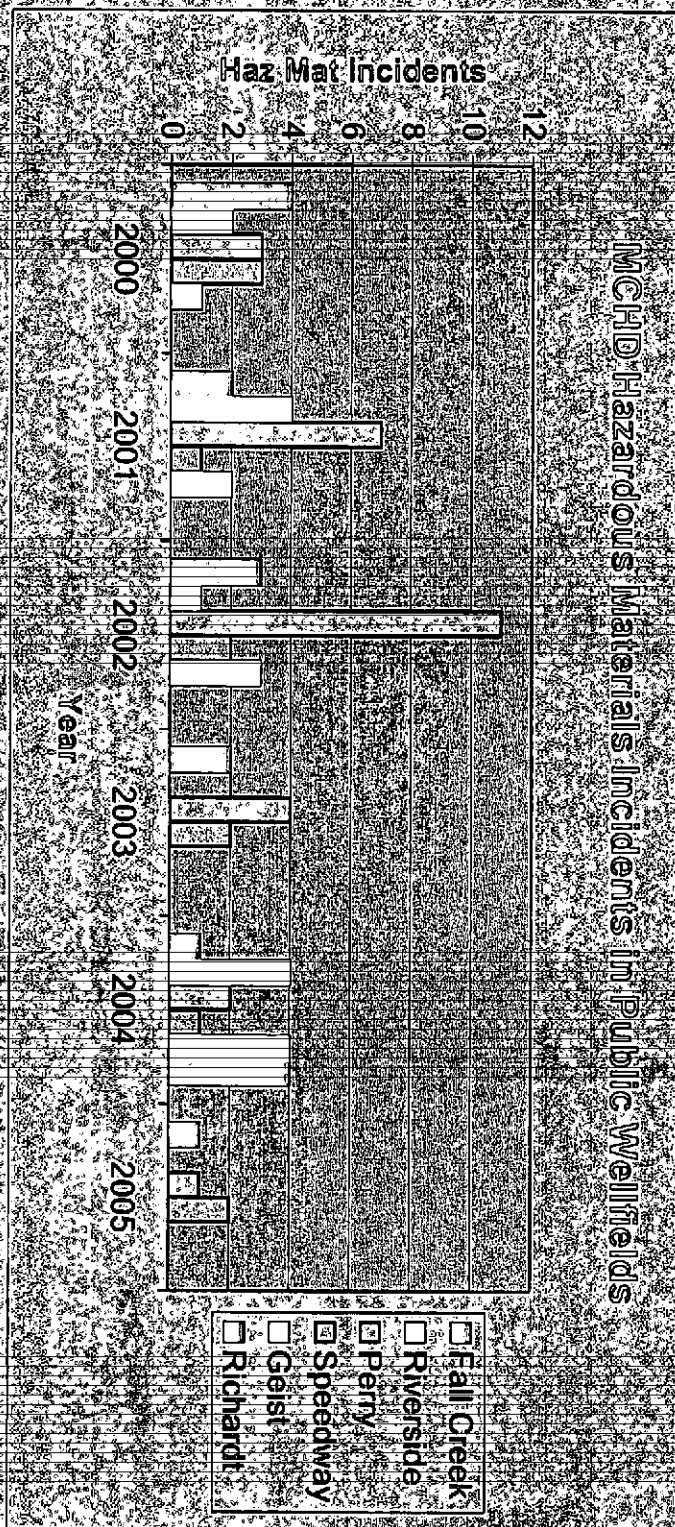
Pam Thevenow
Water Quality & Hazardous Materials Management
3838 North Rural St.
Indianapolis, IN 46205
phone: 221-2266
fax: 221-2288
ptheveno@hhcorp.org

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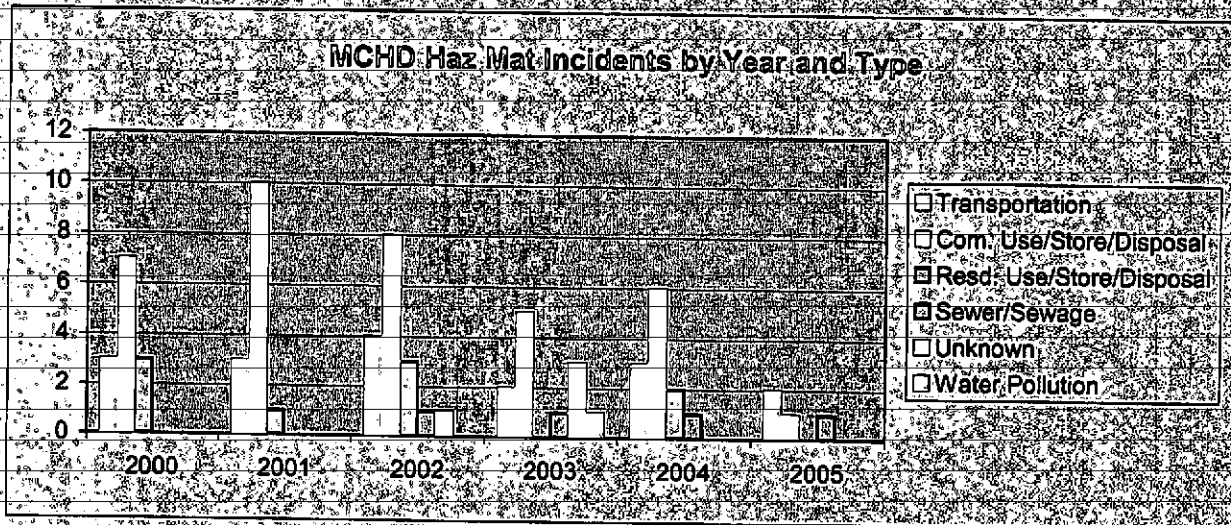
3/23/2007

	2000	2001	2002	2003	2004	2005	Total
Fall Creek	4	2	3	2	1	1	13
Riverside	2	4	1	0	4	0	11
Perry	3	7	11	4	2	1	28
Speedway	3	1	2	2	1	2	11
Geist	1	2	3	0	4	0	10
Richardt	0	0	0	0	4	0	4
Total	13	16	20	28	16	4	77

MCHD Hazardous Materials Incidents in Public Wellfields



	2000	2001	2002	2003	2004	2005
Transportation	3	3	4	2	3	2
Com. Use/Store/Disposal	7	10	8	5	6	1
Resd. Use/Store/Disposal	3	1	3	0	2	0
Sewer/Sewage	0	0	1	1	1	1
Unknown	0	0	1	3	0	0
Water Pollution	0	0	0	1	0	0
Total	13	14	17	12	12	4



Conclusion

The data from the MCHD TQP business inspection program can be used to gauge the compliance with the specific requirements of the City's wellfield zoning ordinance and to evaluate the continued use of best management practices at wellfield businesses. The 48 specific items on the MCHD inspection list include wellfield requirements, typical TQP conditions, and industry-accepted best management practices.

Nearly 60% of the TQP wellfield businesses had at least one defect to the zoning code at the time of the initial inspection. Twenty-three percent (23%) of these businesses had defects of the specific requirements in the wellfield code and 36% had at least one defect to the TQP conditions.

The MCHD inspection data should be used to gauge whether a wellfield business is "behaving in a manner that protects groundwater" by assessing the active use of best management practices. A best management practice that is specified as a TQP condition is counted as a TQP condition, not a BMP. Of the 39 sites inspected, 54% had at least one defect to BMP with an average number of 5 BMP defects per site.

The good news is that once TQP wellfield business owners/operators were made aware of the defects and the corrections needed, compliance was achieved on an average of 66 days. This shows the TQP wellfield business owners/operators benefit from compliance assistance inspections as chemical BMP's are re-established or noted as being maintained.

This outcome is not surprising to public health and safety professionals. Long ago, these professionals recognized the need to perform periodic inspections to ensure safe practices are continued. For example, for decades building codes have required a certain number and specific location of exits to ensure that occupants can quickly evacuate in a fire emergency. Building plans are approved and the building is constructed with some degree of "government" oversight. Once the building is occupied, "government" (in the form of fire prevention) performs periodic inspections to ensure exits are assessable and open. Fire prevention professionals understand that just because the building was built according to the construction codes designed to protect public safety that does not mean the building will always be "used" safely. Fire prevention professionals instituted regulations and compliance inspections because of fire fatalities related to locked or blocked exits.

Marion County Health Department
TQP Business Compliance Inspection Program
(May 2005)

Purpose: To ensure and evaluate continued compliance with the Zoning Wellfield Ordinance, compliance with selected TOP zoning conditions, and on-going operations using best management practices.

The MCHD Wellhead Protection Checklist reviews chemical use, storage, and handling practices in several broad areas with specific items reviewed in each area:

- o Spill Plan
- o Supply Well Sealing
- o Chemical Use, Handling and Storage
- o Supplier/Hauler Notification
- o Secondary Containment
- o Product/Fluid Transfers
- o Piping/Drains
- o Sump pits/pumps
- o Waste Disposal/Dumpster
- o Future Tenant Restrictions
- o Underground Storage Tanks

The items reviewed in the MCHD checklist include wellfield zoning requirements, items typically included as TOP conditions, and best management practices.

SPILL PLAN

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance
1. Spill response/prevention plan on site	When specified in the TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
2. New employees are trained/documentation available	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
3. Annual employee refresher/documentation available	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
4. Employees instructed to call water utility	When specified in	Always where chemicals used/stored/handled/disposed	NO

within 24 hours of release/phone number is posted	TOP conditions letter		
5. Employees instructed to call water utility within 24 hours if release detection methods confirm release/phone number is posted	When specified in TOP conditions letter	Always where chemicals used/stored/handled/disposed	NO
6. Spill kit available	When specified in TOP conditions letter	Always where chemicals used/stored/handled/disposed	NO
7. Telephone numbers for local response team is posted	When specified in TOP conditions letter	Always where chemicals used/stored/handled/disposed	NO

SUPPLY WELL SEALING

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance
8. Well abandonment			YES-Section 2.01 H.2 (a)

CHEMICAL USE, HANDLING AND STORAGE

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance
9. Chemical inventory types and quantity	When specified in TOP conditions letter	Always where chemicals used/stored/handled/disposed	NO
10. Waste inventory type and quantity	When specified in TOP conditions letter	Always where chemicals used/stored/handled/disposed	NO
11. Chemicals and waste containerized and labeled	When specified in TOP conditions letter	Always where chemicals used/stored/handled/disposed	NO
12. Recent spills, leaks, overfills evident	When specified in TOP conditions letter	Always where chemicals used/stored/handled/disposed	NO

13. Chemicals and waste stored on hard surface inside or covered outside			YES-Section 2.01 H 2 (f)
14. Concrete floors are sealed			YES-Section 2.01 H 2 (f)
15. Floor seams and joints are sealed			YES-Section 2.01 H 2 (f)
16. Floor cracks in chemical use areas			YES-Section 2.01 H 2 (f)

SUPPLIER/HAULER NOTIFICATION

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance
17. Chemical supplier notification/documented	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
18. Waster hauler notification/documented	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
19. Supplier/Hauler own spill response plan is on site	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO

SECONDARY CONTAINMENT

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance
20. Secondary containment of liquid chemicals/waste are resistant and adequate capacity			YES-Section 2.01 H 2 (f)
21. Spills to secondary containment are	When specified in TQP	Always where chemicals used/stored/handled/disposed	NO

cleaned up immediately	conditions letter		
22. Small container (< 1 gallon) are stored in secondary containment when not in use	When specified in TOP conditions letter	Always where chemicals used/stored/handled/disposed	NO
23. Secondary containment is impermeable and 110% capacity of largest container			YES-Section 2.01 H. 2. (i)
24. Sealer in chemical storage area is resistant			YES-Section 2.01 H. 2. (f)
25. Exterior secondary containment is properly maintained			YES-Section 2.01 H. (i)(1)
26. Exterior secondary containment protected from precipitation or properly removed to maintain capacity			YES-Section 2.01 H. (i) (iii)

PRODUCT/FLUID TRANSFERS

MCHD Checklist Item	TOP Condition	BMP	Zoning Ordinance
27. Transfers are indoors or outside on hard surface			YES-Section 2.01 H. (2) (i)
28. Transfer occur within containment area			YES-Section 2.01 H. (2) (i)

29. Transfer containment area capacity is 110% of any transfer hose(s)	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
30. Overfill protection with audible/high level warning systems installed.	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
31. Drip pans provided if transfer is not indoors or within a containment area	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO

PIPING/DRAINS

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance
32. Plans showing storm/sanitary sewers and/or septic system is on site	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
33. Chemical storage area drains to dry wells/storm sewers are plugged			YES-Section 2.01 H (2) (d) (f)
34. Chemical handling area drains to dry well/storm sewer are plugged			YES-Section 2.01 H (2) (d) (f)
35. Unused drains are plugged			YES-Section 2.01 H (2) (d) (f)
36. Single walled drains in use are	When specified in TQP	Always where chemicals used/stored/handled/disposed	NO

tightness tested	conditions letter		
37. Drains are double walled with pressure fittings	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
38. Drain systems likely to receive vehicle fluids include oil water separator	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO

SUMP PITS/SUMPS

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance
39. Unused sump pits are sealed	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
40. Below floor pits are inspected regularly for conditions	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO
41. Dewatering pits in basements are protected from releases	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	NO

WASTE DISPOSAL/DUMPSTER

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance
42. Site waste disposal is liquid tight dumpster on concrete pad			YES-Section 2.01 H (2)(c)

FUTURE TENANT RESTRICTIONS

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance	MCHD Checklist Item
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43. New tenants are copied on TQP conditions for handling/storing chemicals on site	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed	When specified in TQP conditions letter	NO
44. Site manager documents all tenants are aware of TQP special conditions.	When specified in TQP conditions letter	Always where chemicals used/stored/handled/disposed		NO

UNDERGROUND STORAGE TANKS

MCHD Checklist Item	TQP Condition	BMP	Zoning Ordinance
45. UST's double walled			YES-Section 2.01 H (2) (m) (i)
46. 3 methods of leak detection are used			YES-Section 2.01 H (2) (m) (ii)
47. Automated monitoring with alarms used			YES-Section 2.01 H (2) (iii)
48. Piping is double walled and automated monitoring with alarms used			YES-Section 2.01 H (2) (m) (iii)

E. Curtis Auto Sales

20. Secondary containment of liquid chemicals/waste is resistant and adequate capacity.

42. Site waste disposal is liquid tight dumpster on concrete pad.

Big 3 Concrete Finishing

23. Secondary containment is impermeable and 110% capacity of largest container

20. Secondary containment of liquid chemicals/waste are resistant and adequate capacity

Roberts Family LLC

23. Secondary containment is impermeable and 110% capacity of largest container

20. Secondary containment of liquid chemicals/waste are resistant and adequate capacity

Most Common Wellfield Defects Observed

42. Site waste disposal is liquid tight dumpster on concrete pad. -5 Sites

23. Secondary containment is impermeable and 110% capacity of largest container -4 Sites

TQP Conditions and BMP Compliance Results (MCHD 2003 & 2005, May)

Number of sites inspected: 39

Total number of sites with TQP and/or BMP defects at initial inspection: 22

Total number of TQP and/or BMP defects at initial inspection: 129

Average number of TQP and/or BMP defects per site: 6

Total number of sites with TQP defects at initial inspection: 14

Total number of TQP defects at initial inspection: 35

Average number of TQP defect per site: 3

Total number of sites with BMP defects at initial inspection: 21

Total number of BMP defects at initial inspection: 94

Average number of BMP defects per site: 6

Number of sites with no TQP or BMP defects noted at initial inspection: 17

Approximate number of days to compliance: 66 days

Top Sites

Site	Total TQP/BMP defects	TQP defects	BMP defects	Wellfield
Tuchman Cleaners	13	4	9	Geist W5
Advance Auto Parts-Crawfordsville Rd	12		12 (Note: 2005 inspection only 4 BMP defects)	Speedway W5
Marathon-Keystone Av	10	4	6	Fall Creek W5
Marathon-Keystone Av	10	3	7	Fall Creek W5
Big 3 Concrete Finishing	9		9	Fall Creek W5
BP Connect-Keystone	8	4	4	Fall Creek W5
Lighthouse Car Wash (Litebrite)	8	2	6	Fall Creek W1
Perry MSD Bus Garage & Warehouse	11		11	Perry W5

Frequency of defect observed by TQP and BMP

MCHD Checklist Item #	TQP Condition	Best Management Practice
1. Spill response/prevention plan on site	4	1
2. New employees are trained/documentation available	5	4
3. Annual employee refresher/documentation available	6	4

4. Employees instructed to call water utility within 24 hours of release/phone number is posted	5	5
5. Employees instructed to call water utility within 24 hours if release detection methods confirm release/phone number is posted	3	6
6. Spill kit available	1	3
7. Telephone numbers for local response team is posted	1	2
9. Chemical inventory- types and quantity	0	4
10. Waste inventory type and quantity	0	2
11. Chemicals and waste containerized and labeled	0	0
12. Recent spills, leaks, overfills evident	0	2
17. Chemical supplier notification/documented	5	4
18. Waster hauler notification/documented	1	12
19. Supplier/Hauler own spill response plan is on site	0	12
21. Spills to secondary containment are cleaned up immediately	0	1
22. Small container (< 1 gallon) are stored in secondary containment when not in use	1	1
29. Transfer containment area capacity is 110% of any transfer hose(s)	0	1
30. Overfill protection with audible high level warning systems installed	0	1
31. Drip pans provided if transfer is not indoors or within a containment area	0	0
32. Plans showing	1	10

storm/sanitary sewers and/or septic system is on site		
36. Single walled drains in use are tightness tested	0	0
37. Drains are double walled with pressure fittings	0	1
38. Drain systems likely to receive vehicle fluids include oil water separator	0	0
39. Unused sump pits are sealed	0	0
40. Below floor pits are inspected regularly for conditions	0	1
41. Dewatering pits in basements are protected from releases	0	0
43. New tenants are copied on TQP conditions for handling/storing chemicals on-site	1	2
44. Site manager documents all tenants are aware of TQP special conditions	1	1

Inspection Summary (2003 & 2005, May)**Wellfield Ordinance Items****Number sites inspected: 39****Number of sites with ordinance defects: 9****Total number of wellfield ordinance violations: 21****Number of sites with no wellfield ordinance violations on initial inspection: 30****Top 5 Sites**

Site	Number of Wellfield defects	Wellfield
Marathon 3402 N Keystone	5	Fall Creek W5
Herron Art School	4	Riverside W1
Advance Auto Crawfordsville	3	Speedway W5
E Curtis Auto	2	Riverside W5
Big 3 Concrete Finishing	2	Fall Creek W5
Roberts Family LLC	2	Perry W5

Marathon-3402 N Keystone**Defect items:**

- 20. Secondary containment of liquid chemicals/waste are resistant and adequate capacity.
- 23. Secondary containment is impermeable and 110% capacity of largest container.
- 25. Exterior secondary containment is properly maintained.
- 26. Exterior secondary containment protected from precipitation or properly removed to maintain capacity.
- 42. Site waste disposal is liquid tight dumpster on concrete pad.

Herron Art School

- 23. Secondary containment is impermeable and 110% capacity of largest container.
- 33. Chemical storage area drains to dry wells/storm sewers are plugged.
- 34. Chemical handling area drains to dry well/storm sewer are plugged.
- 42. Site waste disposal is liquid tight dumpster on concrete pad.

Advance Auto-Crawfordsville Rd

- 35. Unused drains are plugged.
- 15. Floor seams and joints are sealed.
- 14. Concrete floors are sealed.

Sign-in
 Indianapolis Water Wellfield Update
 January 10, 2007

Time/Location: 10:00am/Conf. Room C, IDEM (Shadeland offices)
 Attendees: IDEM, City of Indianapolis, Veolia Water, interested parties

Name	Affiliation	e-mail
1) Kandas BEAN	Shrewsbury Assoc	Kandas@shrewsbury.com
2) MIKE Borchers	Dept. of Waterworks	m.borchers@indigo.gov.in
3) MATT DARNLEY	Weston Solutions	M.darnley@westonsolutions.com
4) JIM SULLIVAN	IDEM	JSULLIVAN@idem.in.gov
5) Richard HARRIS	IDEM	RAHARRIS@idem.in.gov
6) Dale Pershing	Veolia Water Indianapolis	dale.pershing@veoliamt.com
7) Adam B. Watts	IDEM	awatts@idem.in.gov
8) Becky Travis	IDEM	rtravis@idem.in.gov
9) ROBY HANSELL	IDEM/INCHD	r.hansell@idem.in.gov
10) SHARON DAVIS	Veolia Water Indy	sharon.davis@veoliamt.com
11) Kevin Houppert	IDEM OLQ St. Cleanup	khouppert@idem.in.gov
12)		

IDEM/Indianapolis Water Quarterly Wellfield Update January 10, 2007

Riverside Wellfield:

Do All Company facility (Riverside Wellfield)
1850 W. 16th Street
State Cleanup # 2004-09-0214
Mindy Baker, project manager (233-2406)

This site appears to be within a 3,000 foot radius// 1yr TOT for an Indianapolis wellfield.

The site is a medium priority with residual petroleum contamination from former heating oil USTs. The USTs were pulled and ~ 230 tons of affected soil were removed and properly disposed. High TPH-DRO was noted in soil, soil and groundwater both also have elevated cPAHs. Groundwater cPAH concentrations exceed RISC residential and/or industrial default closure levels. The groundwater contamination may extend off-site.

Update (January 2007): An FSI report was recently submitted. Four new monitoring wells were installed in November 2006. MW 4 at the northwest corner of site had cPAHs detected in groundwater above RISC industrial closure. Groundwater flow at the site is to the southeast and the presumed source is south of MW 4. The nature and extent of contamination is not delineated.

Component Machines site (Riverside Wellfield)
Gent Ave. between 16th and 17th St.
State Cleanup #2004-12-100
Gerald O'Callaghan, project manager (233-1522)

Located in the Riverside well field adjacent to (across the street from) Riverside Well A.

The consultant has removed the source area (250 tons of soil with a tank) and has installed an SVE system and an air sparge unit. Both systems should now be online. There is a good possibility that the warehouse to the north of 17th street is also a source, and IDEM should be getting sampling results from this site soon. The TCE plume appears to be stable, but not enough data has been collected to state with any certainty.

Update (9/13/06): SVE system is installed. Seeking access for off-site sampling from potential upgradient source.

S. Chon and Sons (Riverside Wellfield)
1402 N. Capitol Ave (corner of 14th and Capitol)
State Cleanup #2004-09-062
Steve McIntire, project manager, (232-4192)

This site is located in the 5 year time of travel of the White River station #20 (5249004). PCE is present in the groundwater at this site. The general direction of GW flow is to the SW. Local groundwater flow is to the southwest. PCE was delineated to <5 ppb west and south west of the site. (January 2007) No update since September 2006 meeting.

Indianapolis Partners/ Commercial Plastics (Riverside Wellfield)
1013 & 1019 N. Capitol
State Cleanup Site #2005-12-035
Amy Berg, project manager, 234-4382

This site is currently conducting a further site investigation to horizontally and vertically delineate soil contamination. Four (4) underground storage tanks (USTs), which likely contained heating oil, were removed. Confirmation soil samples from the UST excavation pit were below detection limits or Risk Integrated System of Closure (RISC) residential default closure levels for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE), and carcinogenic polynuclear aromatic hydrocarbons (cPAHs). Delineation of soil contamination is not complete, however, due to soil contamination detected at deeper depths in soil borings advanced on site. Groundwater samples collected to date were at non-detect levels for BTEX, MTBE, and cPAHs.

Update (January 2007): A Further Site Investigation Report was received by IDEM on December 6, 2006. This Report is currently being reviewed by IDEM technical staff.

30th and Kessler Blvd Project (Riverside Wellfield)
Intersection of West 30th Street and Kessler Blvd.
VRP#6051002
Rick Milton, project manager (233-8284)

This site is a former drycleaner with a release of VOCs that seems to have originated at the back door of the facility, although no tanks are present. Soil contamination for PCE, TCE, and Vinyl Chloride above RISC industrial default levels has been detected. Groundwater contamination for Carbon Tetrachloride exceeds the RISC industrial closure level in one well that is located near the property line, and it appears likely that contamination may have migrated off site. One additional well exceeds RISC residential default closure level for PCE. Additional site characterization is required as neither soil nor groundwater has been defined to RISC residential closure levels.

IDEM provided comments on the Remediation Work Plan on January 3, 2007, and is awaiting a response from the applicant.

Flexdar (Riverside Wellfield)1825 W. 18th StreetState Cleanup Site #2004-04-159Kevin Houppert, project manager, 232-8552

Former printing business with TCE contamination in soil and groundwater. Troy Risk, the contractor for Flexdar, was scheduled to complete an investigation this spring.

The FSI Report was submitted in late December 2006 and is under review.

NEW Michaelis Site/Former Fame Laundry1352 Illinois StreetState Cleanup Site #2004-03-014Kevin Houppert, project manager 232-8552

Additional investigation is required to determine the nature and extent of ground water contamination.

Southeast Trailways1810 W. 16th StreetRosy Hansell, project manager (234-0985)

Southeastern Trailways (FID #274) is in the Riverside W-1. This facility was a Mack Truck dealership until 1975, and since then has been a Trailways bus maintenance facility. LUST Incident #198612001 was a diesel fuel release, and resulted in the removal of 200 cubic yards of contaminated soil. LUST #199804518 was reported when contaminated soil was discovered during the removal of a waste oil tank. The tank and approximately 60 cubic yards of contaminated soil were removed from the site, and permanent monitoring wells installed. The site was reactivated in May of 2006. Recent analytical results from monitoring well samples showed no detectable levels of cPAHs, BTEX, or MTBE, but did show significant TCE contamination. In August of 2006, Trailways was contacted by Troy Risk, the consultant for the former Flexdar facility (State Cleanup #200404159), directly north of Trailways, who wanted access. The TCE appears to be from that site and not from Trailways. Site investigation by Trailways is continuing, and remedial action may be required.

Update (January 2007): SET still needs to finish the delineation of the waste oil tank contamination, and must allow Flexdar access to install monitoring wells on SET property.

Stewart Manufacturing (Riverside Wellfield)1280 North Senate AvenueVRP# 6040306Erin Brittain, project manager (233-2991)

Stewart Manufacturing entered the VRP to address VOC impacts to soil and groundwater. The site has been occupied since the early 1940's. Construction on the former Stewart Manufacturing facility began around 1987 and finished in 1988. The facility manufactured ventilation systems and vents. During these activities chemicals used at the site included paints, coolants and lubricants for machinery maintenance, and solvent degreasers for parts cleaning. All operations were discontinued in 2003.

In January, 2005, VOC impacted soils were removed from the site. About 525 tons of impacted soils were removed from under the building from the old drain and supply lines. In addition, approximately 450 tons of impacted soil was removed from an outside degreaser storage area. Confirmation samples were collected before the excavations were backfilled. An SVE/air sparge unit was installed at the site to further remediate soil and groundwater. Operation of the remedial system is on-going.

Following the source removal further groundwater delineation demonstrated that a VOC plume is migrating onto the property from an unidentified upgradient source. The site is currently pursuing property access to complete delineation of the Stewart plume. The process has been hindered by the fact that there are potentially multiple entities affected, and that the site is under the I-65/70 interchange. As of last meeting (3/06) IDEM was waiting on a report that summarizes all work to date, and presents remedial options.

Update (January 2007): Stewart Manufacturing recently received property access from INDOT to install 3 additional monitoring wells north of Methodist Hospital. A comprehensive data submittal is anticipated in February 2007.

Citizens Gas & Coke Utility Property (Former Water Gas & Coke Plant)
(Riverside Wellfield)

2150 Dr. Martin Luther King Jr. Street

VRP #: 6050204

Corey Webb, project manager (234-0970)

This Site is located within the one year time-of-travel for the Riverside Wellhead Protection Area. The applicant for the Site is Citizens Gas & Coke Utility (CGCU). A water gas plant and coke oven batteries were operated at the Site from the early 1900's to 1956. The Site is currently CGCU's operations facility used as a maintenance/storage area for fleet vehicles, material storage area, and natural gas fueling station.

Site investigation activities are ongoing. To date various VOCs, SVOCs, and metals have been detected at levels exceeding the RISC cleanup criteria within both soils and groundwater. Details regarding the site conditions can be found within the *Site Characterization Report* and the *Further Site Investigation Report*, dated January 5, 2004 and December 16, 2005 respectively.

Update (9/13/06): IDEM commented on the Further Site Investigation report in a letter dated April 10, 2006. IDEM's comment letter asked for additional investigation and

contaminant delineation, and reiterated the fact that the site is up-gradient to municipal wells screened in the same aquifer. Contaminants appear to extend offsite, although investigation activities to date have been limited to the Site boundaries.

The cleanup criteria for this project will either be RISC residential default criteria or a non-default approach that takes into consideration the Site's proximity to the municipal wells and surface water intake. At a meeting July 27, 2006, CGCU confirmed that the remediation work plan should be submitted by the end of 2006. Citizens also voiced their concern that the contamination from a nearby recycling facility could be migrating on to their site. IDEM noted that contamination from the Citizens facility may also be migrating on to the recycling facility and that further investigation is necessary.

Update (January 2007) - In September 2006, IDEM received a response to 04/10/06 comment letter. No response required on our part; they agreed to all comments and will investigate further. In November 2006, there was a meeting at IDEM to discuss Citizen's Gas VRP sites. Regarding the Langsdale site, Mark Flavin (Environ) went over the recently completed electrical resistivity study at the site. This study provided a great deal of information regarding soil types beneath the site, and will be formally presented to us in the next submittal.

30th and Kessler Blvd Project (Riverside Wellfield)
Intersection of West 30th Street and Kessler Blvd.
VRP#6051002
Rick Milton, project manager (233-8284)

Property has been operated as a strip mall since 1957 and contains a former dry cleaner which closed approximately 1988. Per the consultant, all USTs have been removed. Also claims that all tanks were heating oil tanks. Constituents of concern are associated with the dry cleaning operation. Consultant monitoring results show small PCE plume above RISC Residential. Claims not leaving site.

No official data has been submitted to IDEM for review. Consultant says RWP data gathering finished. Needs to be completed in book form. Should be submitted soon.

Capitol Supplies (Riverside Wellfield)
2020 N. Illinois Street
VRP site #6010401
New project manager

The site had four USTs (gas, diesel, and motor oil) that were pulled in 2001. Four quarters of groundwater data have been submitted. BTEX compounds were non-detect at 1-5 ppb, the highest observed hit was 28 MTBE ppb in a rinsate blank. However, MTBE was not present in the well samples. Two PAHs were detected during the second quarter - 15 ppb benzo(b)fluoranthene and 11 ppb benzo(a)pyrene. Neither was detected in the first quarter or subsequent quarters.

Rumpke Montcalm Street Property (Riverside Wellfield)2069 and 2101-2235 Montcalm Street, IndianapolisVRP #: 6030103Pat Austin, project manager (234-2833)

This Site is located within the one year time-of-travel for the Riverside Wellhead Protection Area. The Site is approximately 14 acres and is currently operated as a material recycling and solid-waste transfer station. The Site has had varied industrial/commercial activities that include: gravel operations, various metal fabricators, garden tractor manufacturing, paper box company, carburetor parts and brake companies, and fleet fueling activities.

The VRP has limited information regarding site conditions. There have only been randomly placed borings throughout the Site, none of which appear to have been placed within suspected source areas. Based upon this limited information, it is known that various VOC, SVOC, and metals (acetone, TCE and daughter products, benzo(a)pyrene, arsenic, lead, chromium, mercury, selenium, barium) have been detected within the Site's soil and groundwater. There have been no offsite investigations. The only known dissolved contaminants exceeding RISC default residential cleanup values are arsenic and lead detected at 0.014mg/l and 0.053mg/l respectively.

Rumpke submitted a Site Characterization Plan to IDEM in August of 2003. IDEM reviewed the document and sent comments to Rumpke in February of 2004. Rumpke responded with updated text and tables in March of 2005. Andrews Environmental Engineering began field characterization work in the summer of 2005. They completed all sampling in November 2006 and plan to submit an investigation report/remediation work plan by February of 2007.

VRP will require that the cleanup criteria for this Site be either a RISC default residential or a non-default approach that takes into consideration the Site's proximity to the Riverside wellfield.

D-A Lubricant (Riverside Wellfield)1331 & 1337 W. 29th StreetVRP #6020701Ruth Williams, project manager (233-4623)

The facility has been manufacturing and distributing lubricants (greases and oils) since about 1919. There were some spills associated with the old tank farm (no secondary containment), which were cleaned up and the soils excavated. The excavated area has already had confirmatory sampling performed. The area has been paved and a new tank farm constructed, with secondary containment.

Constituents of concern for this site are BTEX, TPH (diesel & oil), and PAHs. LNAPL has been observed, but dissolved constituents are below MCLs. Groundwater remediation is ongoing. Groundwater contamination has not migrated offsite. In soil, BTEX and TPH were non-detect, PAHs were detected, but below the commercial/industrial default RISC default closure criteria by three orders of magnitude.

Fall Creek Wellfield:

Tuchman Cleaners,

4401 N. Keystone, 1 year TOT (Fall Creek Wellfield)

State Cleanup #1991-02-5031

Dawn Groves, project manager, 234-0434

URS, on behalf of Tuchman Cleaners, continues to submit quarterly sampling reports, including the most recent report dated 10/31/06. Free product recovery continues. IDEM staff continues to work with IDEM Office of Legal Counsel on drafting an agreed order for the Tuchman Site.

Curley's Cleaners

3838 N. Illinois Street (Fall Creek Wellfield)

State Cleanup #2005-05-157

Dawn Groves, project manager, 234-0434

Curley's Cleaners falls just outside the 5 year TOT for the Fall Creek Wellfield. As part of recent investigation activities, a grab sample was taken from process water prior to its discharge to the city sewer. The sample came back with a concentration of 140,000 ppb PCE. Further inspection found that a filter had been installed incorrectly, and the process water had been bypassing the filter. It is unknown how long this had occurred. The filter has since been replaced. The initial site characterization was recently submitted to IDEM for review. Investigation of the soil and groundwater is on-going.

Update: Work plan for Further Site Investigation approved in late July. Report will be forthcoming during Fall 2006.

Morellis Cleaners,

5367 N. Keystone, 5 year TOT (Fall Creek Wellfield)

State Cleanup #2004-05-073

Dawn Groves, project manager, 234-0434

Morellis Cleaners recently completed an initial site characterization, which indicated further site investigation was necessary. The FSI Report was submitted to IDEM on 2/27/06.

Update: IDEM has completed review of the FSI report and concurs with the contractor that the nature and extent of contamination has been determined. In June, IDEM requested that a Remediation Work Plan (RWP) be prepared for the site. The RWP is due September 2006.

U-Haul

5251 N. Keystone, 5 year TOT, (Fall Creek Wellfield)

State Cleanup #2005-06-154

Dawn Groves, project manager (234-0434)

During closure of hydraulic lifts, petroleum contamination was found. Due to gasoline-range organics found, No Further Action previously issued by LUST is no longer appropriate. Contractor is currently preparing work plan for FSI.

Further Site Investigation is complete. IDEM concurs with the contractor that the nature and extent of contamination is complete. A Remediation Work Plan was submitted in October 2006.

Update (January 2007): IDEM sends letter approving Remediation Work Plan in December 2006.

Lumbermen's Supply (Formerly U.S. Towel)

4024 Millersville Road, Indianapolis (Fall Creek Wellfield)

VRP site #6030101

Pat Austin, project manager (234-2833)

This Site was operated by U.S. Towel as an industrial laundry and dry cleaner from 1995-1996. Due to extensive RCRA violations at this and other sites operated by the owner, the Indiana Attorney General's Office ordered this facility to cease operations.

This property entered into the VRP to address chlorinated solvent contamination that resulted from U.S. Towel's occupation. This Site is located within the one year time-of-travel of the Fall Creek Well Field. It does not appear that this Site is contributing to the chlorinated contamination observed at the well field. The dissolved contamination at this site (maximum 300 ppb) appears to be limited to the uppermost aquifer which is separated from the lower aquifers by an 18-foot thick confining layer of glacial till. Based on the concentrations observed, the presence of DNAPL appears unlikely. Groundwater samples were collected from the lower aquifer via a temporary boring, a permanent monitoring well, and an onsite production well (now closed). These groundwater samples revealed no detections of VOCs.

Soil vapor extraction (SVE) is the remedy proposed to address absorbed contaminants in soils, followed by in-situ chemical oxidation to address dissolved contaminants. The proposed cleanup criteria are RISC residential default criteria.

The Remediation Work Plan for this site recently underwent public notice (January 9th - February 8th, 2006). During the public notice period the City of Indianapolis submitted a number of comments. Their comments/concerns are focused on the proposed use of in-situ chemical oxidation. In a letter dated February 15th, 2006, the VRP requested that Lumbermen's provide responses. These responses will be returned to the VRP to review and disseminate to the City. Although the work plan has not been formally approved, IDEM has provided approval to install and start the SVE system.

IDEM held a meeting on August 11, 2006 with City and BCA Consultants representatives to address issues discussed in the comment letters. John Kilmer of BCA Consultants agreed to do the following items: perform a pilot study to characterize the potential utility of in-situ chemical oxidation; amend the work plan to incorporate the pilot study results; and add monitoring wells to triangulate and better characterize the plume. These items do not yet have a set schedule. Although the work plan has not been formally approved, IDEM has provided approval to install and start the SVE system.

Update (January 2007) On November 29, 2006, IDEM sent Lumbermen's a RWP rejection letter, providing guidance on issues to resolve and requesting a proposed schedule to add wells, run the pilot test, and submit the RWP. Lumbermen's submitted a response on December 20, 2006 with a proposed schedule, which is under IDEM review.

Former Charles Walker Cleaners

1841 E. 46th Street

Rosy Hansell, project manager (234-0985)

The Former Charles Walker Cleaners (46th and Norwaldo, west of Keystone) had a release of Kwik-Dri Stoddard Solvent, aka Mineral Spirits, from their former UST's. Most of the contamination is at the water table, approximately 35 feet bgs, and is headed southwest toward one of the IW wells in Marcy Village. The plume is delineated, based on current information, and either has not reached the well or is attenuating before it gets there. This past summer, when the water levels dropped, small amounts of free product showed up in two of the MW. The investigation and cleanup is being paid for by an insurance company. The site building was demolished this summer by Arturo DiRosa, the new owner, and we are currently trying to establish conclusively whether the tanks were removed at that time also.

I asked Chuck Phipps in UST Program on 12/11/06 to see if he could help figure that out. No response as yet.

***NEW* Former Purtee Plating**

2306 E. 44th Street

Dawn Groves, project manager (234-0434)

Former plating facility was referred to State Cleanup in October 2006 for several recent releases of various materials. In October 2006, Notice of Liability letters were sent to the former operator of Purtee Plating and the current property owner (Purtee Management Company—different people). In December 2006, IDEM staff met with Purtee Management to discuss why an investigation was necessary. Purtee Management will obtain the services of an environmental contractor and submit a work plan for IDEM review.

Southside Wellfield:

Rockville T&E

6450 S. Belmont Avenue, Indianapolis (South Wellfield)

VRP #6980301

Ruth Williams, project manager, 233-4623

This closed facility is a former machine shop that used degreasers in its operation. TCE and its breakdown products are the primary constituents of concern for this site. An investigation of the facility was not successful in finding a discrete source for the release, but VOC impacts are known to be migrating in groundwater westward from the facility. The maximum groundwater impact offsite from the facility observed to date is 470 ppb. Indications are that the plume has migrated in a southwesterly direction, and an investigation is currently ongoing to determine the nature and westward extent of the plume. In addition, a soil-gas and indoor air evaluation was conducted to determine whether vapor intrusion from the plume presents a risk to the Cedar Park residents. Six homes were tested to determine if vapor intrusion was a potential threat. TCE samples collected beneath the slab of all homes was within acceptable limits. Elevated TCE levels were originally found in two homes, but those results were suspect given that no vapor was detected beneath the homes. When the homes were resampled, the indoor air results came back within risk-based levels. A soil vapor extraction/air sparge system was installed in the summer of 2006 and is currently operating in the area of highest soil vapor contamination.

Update (January 2006) An amended Remediation Work Plan was submitted in December, 2006, and is currently under review.

"CD Enclosed"

PSI FILE AND SPILL DATABASE
CD ENCLOSED

Large Format Document
#1

000'

FORD ROAD WELLFIELD - PRODUCTION WELL,
MONITORING WELL, AND POTENTIAL
CONTAMINANT SOURCE LOCATIONS

Drawn By

LSP

Approved By

SD

SHEET NUMBER

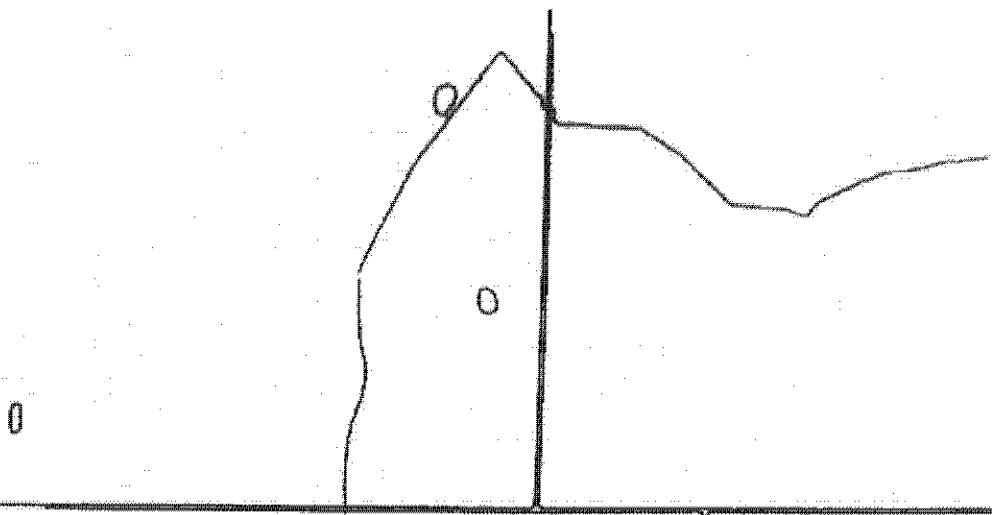
1

of 1

DATE:

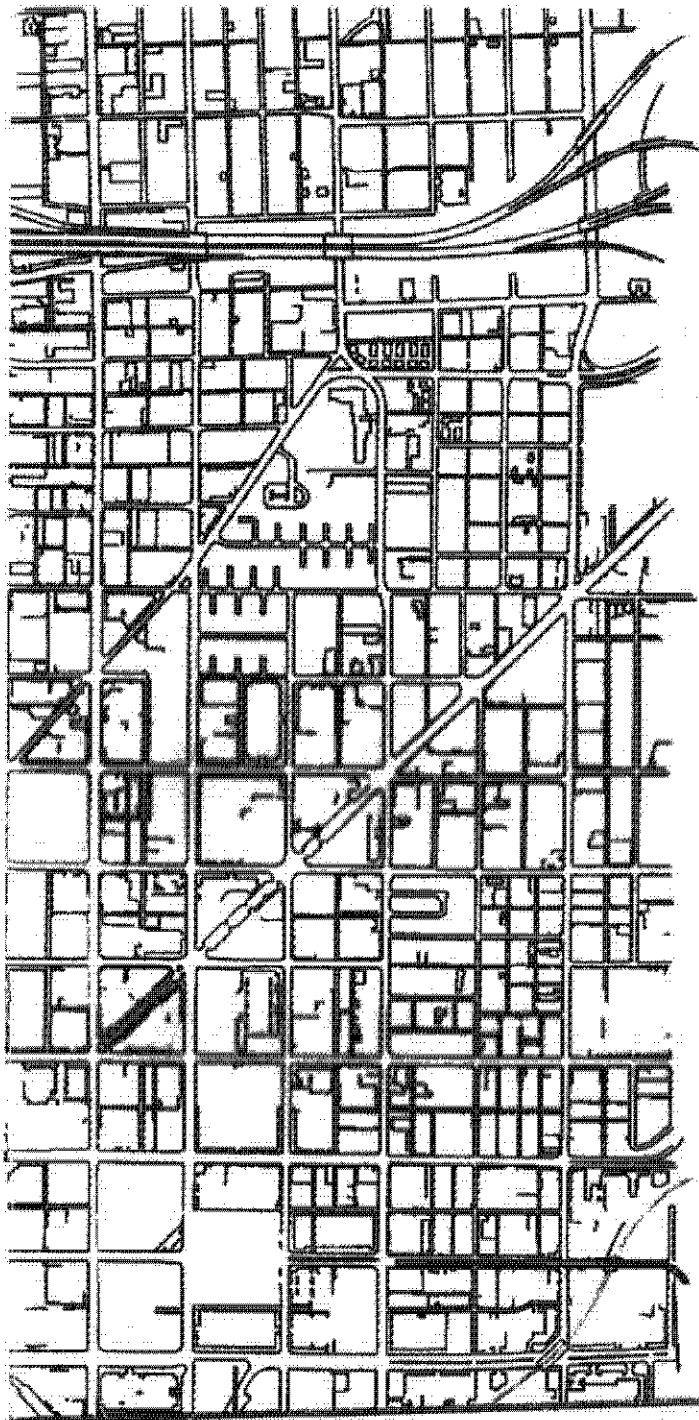
03/19/2007

Large Format Document #2



10'	GEIST WELLFIELD — PRODUCTION WELL, MONITORING WELL, AND POTENTIAL CONTAMINANT SOURCE LOCATIONS		SHEET NUMBER:
			1
			of 1
Drawn By LSP		Approved By SD	DATE: 03/20/2007

Large Format Document
#3



SCALE:
1" = 1000'

RIVERSIDE WELLFIELD - PRODUCTION WELL,
MONITORING WELL, AND POTENTIAL
CONTAMINANT SOURCE LOCATIONS

Drawn By
LSP

Approved By
SD

SHEET NUM

1

of

DATE:

03/21/2

Large Format Document
#4

FALL CREEK WELLFIELD - PRODUCTION WELL,
MONITORING WELL, AND POTENTIAL
CONTAMINANT SOURCE LOCATIONS

SHEET NUMBER:

1

of 1

DATE:

03/19/2007

Drawn By

LSP

Approved By

SD

Davis, Sherrae

From: Davis, Sherrae
Sent: Thursday, June 01, 2006 4:36 PM
o: Avey, Charline M.
Subject: Email address for location of reports

Send turn-off/turn-on and PSC surveys to Zach Biston-Christopher Burke at zbishton@cbbel-in.com. They will do visits to businesses on our behalf. Zach, as I mentioned is in on Tuesday morning.

Note the report for new taps and new installations into new areas to permit inspections to ensure proper well closures goes to Pam Thevenow, MCHH at PTheveno@HHCorp.org.

Thanks.

Davis, Sherrae

From: Pam Thevenow [PTheveno@HHCorp.org]
Sent: Tuesday, July 18, 2006 2:58 PM
To: Davis, Sherrae
Subject: Re: Test delivery of well disconnects

sherrae-my apologies-I'm just catching up on emails and other stuff--yes, rec'd and I responded to IT's message--thanks--this will be a monthly list.

Pam Thevenow
Water Quality & Hazardous Materials Management
3838 North Rural St.
Indianapolis, IN 46205
phone: 221-2266
fax: 221-2288
ptheveno@hhcorp.org

-----"Davis, Sherrae" <sherrae.davis@veoliawaterna.com> wrote: -----

To: "PTheveno@HHCorp.org" <PTheveno@HHCorp.org>
From: "Davis, Sherrae" <sherrae.davis@veoliawaterna.com>
Date: 06/26/2006 10:26AM
Subject: Test delivery of well disconnects

Pam,

Our IT is working on getting the well disconnects report and others to run and deliver automatically to the recipients. Apparently they did a test on Friday--and I've been asked to verify with the intended recipients if they received the email--please let me know if you got anything. Thanks

Confidentiality Notice: This E-Mail transmission may contain confidential or legally privileged information that is intended only for the individual or entity named in the E-Mail address. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or reliance upon the contents of this E-Mail is strictly prohibited. If you have received this E-Mail transmission in error, please reply to the sender, so arrangements can be made for proper delivery, and then delete the message from your system. Thank you.

3/26/2007

Davis, Sherrae

From: Zach Bishton [zbishton@cbbel-in.com]
Sent: Tuesday, June 27, 2006 9:13 AM
To: Davis, Sherrae
Subject: RE: Test delivery of well disconnects

Sherrae- I did receive an email on Friday. Thanks

Zach

Zach Bishton
Resource Planner
Christopher B. Burke Engineering, Ltd.
Ph: 317-266-8000 Fax: 317-632-3306
www.cbbel-in.com zbishton@cbbel-in.com

From: Davis, Sherrae [mailto:sherrae.davis@veollawaterna.com]
Sent: Monday, June 26, 2006 10:29 AM
To: Zach Bishton
Subject: FW: Test delivery of well disconnects

Zach,

Our IT is working on getting the turn off-turn off and site inspection report to run and deliver automatically to the recipients. Apparently they did a test on Friday--and I've been asked to verify with the intended recipients if they received the email--please let me know if you got anything. Thanks

3/23/2007

Disc_cde

LOS Left on at Spigot

DIS Well disconnected

LOI Left on for Irrigation

Disconnect Report Codes

[illegible]

[illegible]

Indianapolis Water
Department of Waterworks
Project Summary Sheet
CP07-114

Project:	VWI/Production Well Closures
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Description

Abandoned wells need to be closed in accordance to IDNR, Well Head Protection Rule, and Local Wellhead Ordinance. Many of wells in question have not been in use since 1994 when the RS wells were tied into the WR well line. The State signed its wellhead rule in 1997, which required the closures after one year of non-use, and the utility completed its wellhead plan as required by the rule and local ordinance in March of 2002. Properly close wells on the following schedule, over the course of three (3) years: 7 wells in 2007 - WR 4&5; FC14, 1&6; RS 20,16,&13, 5 wells in 2008- RS 23,24&25; FC15,16, 4 wells in 2009- RS11&13, FC12&13

Reason/Justification

Compliance with ordinance which requires closure if well is inactive for 1-year. Protection for the aquifer as wells that are abandoned and not properly sealed are mechanisms for contaminants to be introduced directly into the aquifer.

Year	2007	2008	2009	2010	2011	Total
Estimated Cost:	\$ 107,080.21	\$ 80,404.67	\$ 65,407.64	\$ -	\$ -	\$ 252,892.53



Regulatory Requirement:	yes	New (N)/Existing (E) Facility	E
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Critical Project	Yes	Project Priority	1
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Expected Useful Life (Years)	20	New Capital (N)/Special Maintenance (S)	\$
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Project in Master Plan?	yes	Service District	NA
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Emergency Plan Exercises

March 12, 2007

Veolia Water Indianapolis, LLC
EHS&S Department



Emergency Plan Exercises Overview:

- Introductions
- General guidelines & Goals of Exercise #1,
- 11:10 a.m. Contingency Planning Exercise #1
– A hazardous chemical spill scenario in a well field followed by lessons learned discussion
- *Hypothetical exercise scenario information is provided for emergency contingency planning use only.*

Exercise #1 – A well field hazardous chemical spill:

- Goals:
 - learn what agencies need what information concerning well field protection incidents
 - learn how to coordinate with emergency responders where cooperative actions may be needed
 - determine what protective actions can be taken to minimize aquifer contamination
 - better understand who has responsibility to direct and pay for clean-up contractor response actions
 - better understand concerns and needs of Indianapolis Water related to aquifer protection

Exercise #1 – Well Field Hazardous Chemical Spill

Information Inject #1.):

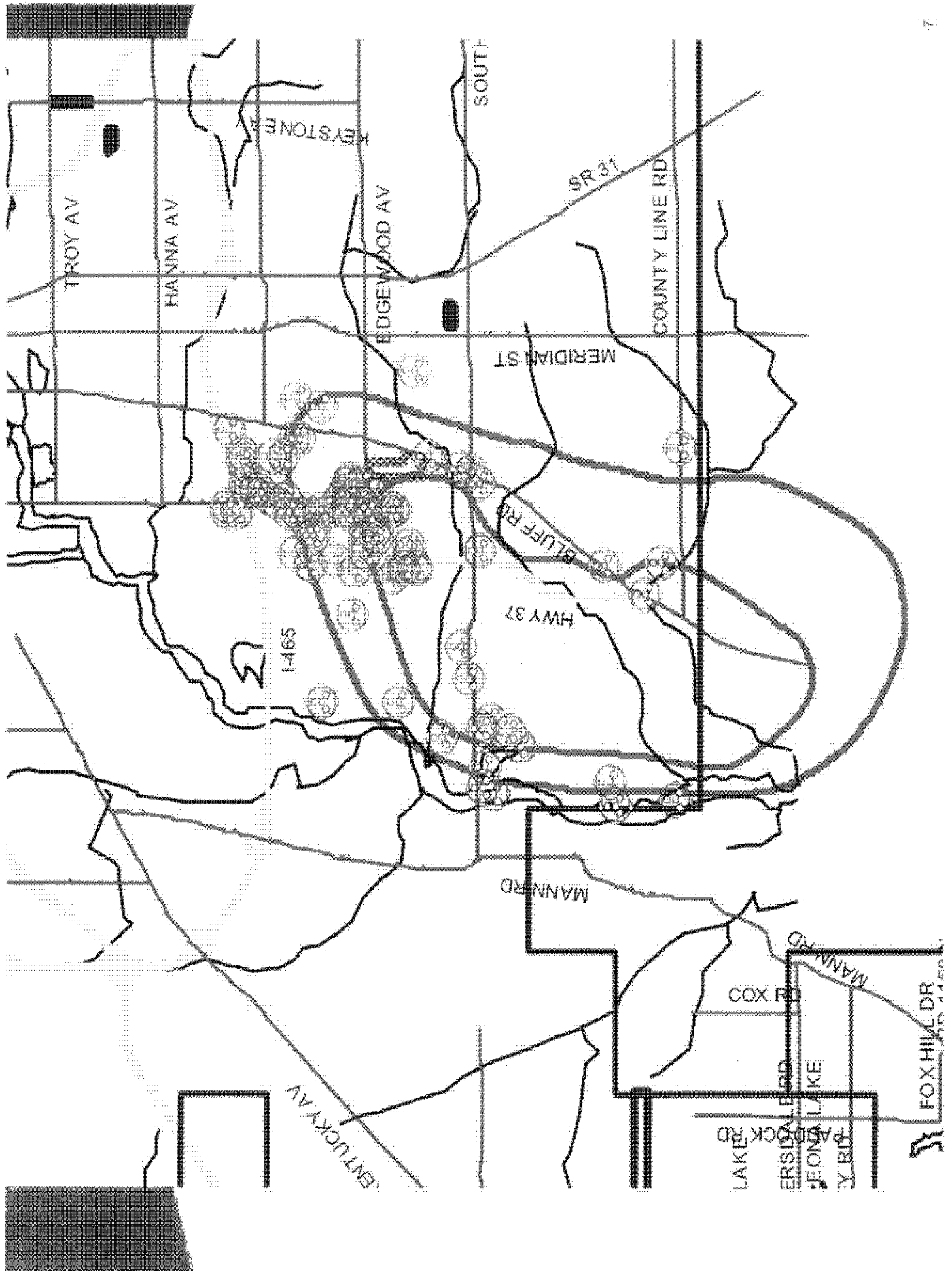
At around 11:00 a.m. March 12, 2007 a radio traffic report heard by a Veolia Water Indianapolis (VWI) employee is communicated to the VWI Central Control System (CCS) operator on duty who calls the Director of Production Dept. and the Director of EHS&S Dept. and relays the following information:

Exercise #1 Inject #1- Continued:

A semi tanker truck with a flammable placard # 1203 was involved in a wreck and has recently been reported to be leaking fuel at State Road 37 and Banta Road. The initial report of the spill has limited information. Over 55 gallons of fuel is reported spilled. The local fire department has been called and should be on site at this time.

More Information Updates to Follow:





Group Discussion:

- Determine at this stage:
 - Who (contacts and affiliations) needs to be informed? How are they notified?
 - How will information will be managed and shared as it is received/updated?
 - What focus and limitations do agencies outside Indianapolis Water have at this point?
 - Where in the incident command structure does Indianapolis Water get included?

Information Inject #2 - 15 minutes later

- An update from emergency responders at the scene reports that the area has been closed off to traffic by police and that some people are being evacuated because an estimated 700 gallons of gasoline has spilled on the road, ditch and nearby ground since the crash at 10:45 a.m. Efforts to minimize drainage to sewers and creeks are in progress. No fire at this point yet. Perry Township Fire Department is assisted by Indianapolis Fire Department on site and incident command has been set up. Marion County Health Dept. Hazardous Materials Response and IDEM Emergency Response are also involved in the response at this point. (*exercise scenario*)

Group Discussion:

- At what point would there be direct communication between the responders on site and someone from the drinking water utility? How is information shared on well locations and the importance to minimize aquifer contamination due to the proximity of the community water supply wells in relation to the spill?
- Has the Fire Department coordinated communication to have the responsible party call a clean-up contractor to the site as soon as possible?
- How can IDEM and Marion Count Health Department assist at this stage?
- What Veolia Water actions are needed such as: implement the Emergency Plan, evaluate well pumping options, monitoring, press release/updates?

Inject #3 (exercise scenario final update)

- Radio news reports that the tanker leak has been contained without a fire and that spill clean up in progress has so far prevented any stream fish kills or damage to sewer system. It is reported that this is in the well field protection area and the question is raised about if the Indianapolis Water drinking water will become contaminated from this spill.
- The city, news media, and customers begin to call with questions about suspected spill impacts to the drinking water supply.

Group Discussion:

- Who has Veolia Water Indianapolis been able to communicate with (Department of Waterworks, City communications spokesperson, incident command PIO, MCHD, IDEM?) in preparing a press release?
- If a press release is issued will it be from Veolia or a joint release?
- How has the VWI call center been updated?
- What post spill VOC sample collection and analysis has been done or scheduled? How will the results be communicated?
- What lessons can be learned from this group exercise? List opportunities for improvement.

Lessons Learned & Opportunities for Improvement:

- (Capture points from group discussion here)

Hypothetical exercise scenario information is provided for emergency contingency planning use only.



JOHNSON COUNTY HEALTH DEPARTMENT

Courthouse Annex
86 West Court Street
Franklin, Indiana 46131

(317) 736-3770
Fax (317) 736-5264

September 6, 2006

Sherrae Davis
Veolia Water
1220 Waterway Blvd
Indianapolis, IN 46202

Dear Committee Member:

A meeting of the Wellhead Protection group has been scheduled for 1:30 p.m. on Wednesday, September 27, 2006. The meeting will be held in the lower level conference room of the Johnson County Annex.

At this meeting recent sampling data will be reviewed and discussed. Additionally, discussion related to spill notification, emergency response procedures and protocols will be discussed.

Other agenda topics of interest may be added as needed. Looking forward to seeing you on the September 27, 2006.

Sincerely,

John Bonsett
Dir. of Environmental Health

Enclosure - Copy of April 19, 2006 Minutes

JB/rw



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Thomas W. Easterly
Commissioner

October 3, 2007

To: Indianapolis Star
307 N. Pennsylvania St.
F: 317-444-8806
Attn: Carol Mitchell

From: Constance Cousins-Leatherman
Groundwater Section
Drinking Water Branch
IDEM
P: (317) 308-3330
F: (317) 308-3339

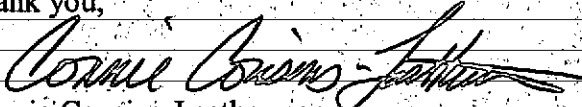
Dear Legal Section:

Please run this legal/ public notice for IDEM one time.

Billing:
Ground Water Section
DWB
100 North Senate Avenue
Indianapolis, IN 46204-2251

Please call or email ccousins@idem.in.gov to confirm receipt as well as the date that the notice will be run.

Thank you,


Connie Cousins-Leatherman
Senior Environmental Manager I
Office of Water Quality
Groundwater Section

1 attachment

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PUBLIC NOTICE

The Indiana Department of Environmental Management, Office of Water Quality has formally reviewed and approved the Phase II Wellhead Protection Plan for Indianapolis Water (PWSID #5249004) located in Marion County.

If you disagree with this decision, and wish to challenge it, you must file a petition (IC 4-21.5-3-7). The petition for administrative review must be filed within fifteen (15) days of the date of this public notice to:

Office of Environmental Adjudication
ISTA Building, Suite 618
150 West Market Street
Indianapolis, IN 46204

The filing of a petition for administrative review is complete on the earliest of the following dates that apply:

- (1) The date the document is delivered to the Office of Environmental Adjudication (OEA)
- (2) The date of the postmark on the envelope containing the document if the document is mailed to OEA by U.S. mail, or
- (3) The date on which the document is deposited with a private carrier, as shown by the receipt issued by the carrier, if the document is sent to the OEA by private carrier.

In order to assist the Wellhead Protection Program staff in tracking appeals, please submit a copy of the appeal petition to:

James Sullivan, Chief
Ground Water Section
Drinking Water Branch
P.O. Box 6015
Indianapolis, IN 46206-6015

The petition must include facts demonstrating that the petitioner is the Plan applicant, a person aggrieved or hurt by the decision, or someone otherwise entitled to review by law. It must also include the name and address of the person filing the petition, why the person is interested in the Plan, identification of anyone represented by the person filing the petition, the specific reasons for filing the petition, the specific issues you would like to be considered at the hearing, and the conditions that you think would be appropriate to satisfy the requirements of the Wellhead Protection Rule, 327 IAC 8-4.1 (IC 13-15-6-2). If you have not received a fact sheet that gives more information about appeals, please ask for an Appeal Fact Sheet from James Sullivan at the phone number below.

If you file a petition, OEA will notify you of pre-hearing conferences, preliminary hearings, hearing stays, or orders disposing of the petition. Anyone may ask in writing for OEA to notify him/her of such actions.

If you have questions regarding your petition, you may contact OEA by dialing (800) 451-6027, press 0 and ask for extension 2-8591 or dial (317) 232-8591. If you have any questions regarding the Wellhead Protection Plan, please ask for extension 308-3388 or dial (317) 308-3388 and ask for James Sullivan.

Please help us spread this information throughout your community. Thank you.

COUSINS-LEATHERMAN, CONSTANCE

From: Davis, Sherrae [sherrae.davis@veoliawaterna.com]
Sent: Tuesday, May 22, 2007 5:41 PM
To: COUSINS-LEATHERMAN, CONSTANCE
Cc: SULLIVAN, JAMES
Subject: RE: Phase II (and revised Phase I) submittals for Indianapolis Water

Hi Connie,

Thanks for your comments, admittedly because there was such a long history it was quite difficult to decide where to place materials, and I was not sure if the reports needed to be able to stand on their own. Frankly that is where I ended up, I approached it from the stand point that someone might only read the 2nd phase or the Phase I and not both, and so I needed to tell the history (if you will) in both documents- and in doing so I recognized that I was creating a lot of duplication. I'm completely on board with the modifications you propose, and I don't think they will require alot to do. It would be helpful to get together to go over first. I'm swamped until next Friday, June 1-- but I'm pretty open the following week, if you'll let me know what works the week of 6/4 I can meet with you. Thanks again, Sherrae.

-----Original Message-----

From: COUSINS-LEATHERMAN, CONSTANCE [mailto:CCOUSINS@idem.IN.gov]
Sent: Tuesday, May 22, 2007 4:44 PM
To: Davis, Sherrae
Cc: SULLIVAN, JAMES
Subject: Phase II (and revised Phase I) submittals for Indianapolis Water

Hi Sherrae, I just wanted to update you on our review of your submittals. Overall, you've done a great job of documenting the long history and many activities that your staff and the citizens of Indianapolis have been involved in over the past 10 years. The city and County have been leaders in the State (and the nation) in protecting their groundwater resources for drinking water. As you mentioned in your introduction, groundwater supplies are the primary future source of supply for Indianapolis and the City/county has made their protection a priority. Unlike other water supplies, many of your programs started before the State's Wellhead Protection Rules were passed and continue to this day. Complying with our reporting requirements thus, must include a thorough explanation of the past with a few modifications to conform to our State "Phased-in" approach. On top of that, the city of Indianapolis has gone through some major re-organizations over the past 5 years, necessitating some changes in both the Phase I and Phase II reports.

I think your approach of updating both the Phase I and Phase II reports is a good one. I'm trying to review both at the same time, since there is so much overlap, but I think some re-organization might make this task easier. The tabs for the Phase I are great and allow me to go back and forth between the two documents. The place where I get lost is in the Appendixes.

6/4/2007

Several appendices are duplicated in both reports and I think they could be split primarily by the date of the material. What do you think? I'm attaching a copy of the final approval letter for the Management Plan that you might want to include in Appendix 2-1 of the Phase I document. Using the date on that letter, it seems that any duplicate materials published after April 23, 2002 should be included in the Phase II document even though you may have already begun the implementation phase long before that approval date. Any duplicate materials published before April 23, 2002 should be part of the Phase I Plan. I realize a few items are considered recent updates to the phase I, finalizing some things that were approved in 2002, such as proposed new well fields and the switch in management and I didn't switch their location. Using this criteria, I recommend the following changes in the list of appendices. I realize this will also require some changes in the text of the report, and I apologize for that, but I think it will sort it out better for future updates. (In some cases you might just reference the other document where it is found.)

Phase I Appendices:

- ✓ Delete the last three items under App. 1-4 (they already exist in Phase II)
- ✓ Insert attached letter in App. 2-1.
- ✓ Delete App. 2-3 (it already exists in Phase II)
- ✓ Move the second item under App 4-1 and insert into the Phase II report
- ~~✓ Delete duplicate materials under App. 4-3 (they already exist in Phase II)~~
- ✓ Move App. 4-7 and 4-8 to the Phase II report
- ✓ Move App. 5-1 and 5-2 to the Phase II report

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- ✓ Insert App. 12-5, 12-6, and 12-7 from the Phase II report (1999, Sept 2001)
 - ✓ Insert App. 13-1 and 13-5 from the Phase II report (Sept 2001 and May 1999)
 - ✓ Insert App 13-7, 13-11, and 13-12 from the Phase II report (1998 & 1999)
 - ✓ Insert App 17-2 from the Phase II report (1997-1999)
 - ✓ Insert App. 20 from the Phase II report (Sept. 2001)

Phase II Appendixes:

- ✓ Delete the first four items in App. 1-1 (they already exist in Phase I)
- ✓ Move App. 12-5, 12-6, 12-7 to Phase I report

- ✓ Move App. 13-1, 13-4, 13-5 to Phase I report
- ✓ Delete App. 13-2 and 13-3 (they already exist in Phase I)
- ✓ Move 13-7, 13-11, and 13-12 to Phase I report
- ✓ Delete App. 14.1 (already exists in Phase I)
- ✓ Move 17-2 to Phase I report - HD report
- ✓ Move App. 20 to Phase I report

I know this probably sounds terribly confusing and I'd be happy to meet with you to discuss. We could create a final agreed List of appendices and switch them in our copies of the reports. What do you think?

I'm available almost any time on the 23, 24, 29 and 31st of May or after. Just let me know.

Thanks Sherrae!

Sincerely,

Connie Cousins-Leatherman

Senior Environmental Mgr I

Ground Water Section

Drinking Water Branch

IDEM